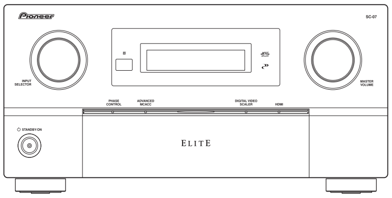
Pioneer sound.vision.soul

Service Manual


Pioneer
SC-07
INPUT SELECTOR
MASTER VOLUME
PHASE CONTROL
ADVANCED MCACC
DIGITAL VIDEO SCALER
HDMI
STANDBY/ON
ELITE

SC-07

ORDER NO.
RRV3818

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

SC-07

SC-05

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
SC-07	KUXJ/CA	AC 120 V	
SC-05	KUXJ/CA	AC 120 V	

For details, refer to "Important Check Points for good servicing".

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T-ZZV JULY 2008 Printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains certain electrical parts contain chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

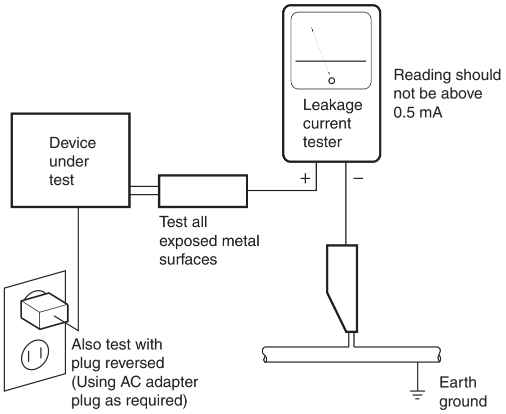
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Leakage current tester
Reading should not be above 0.5 mA
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

1.2 NOTES ON REPLACING PARTS

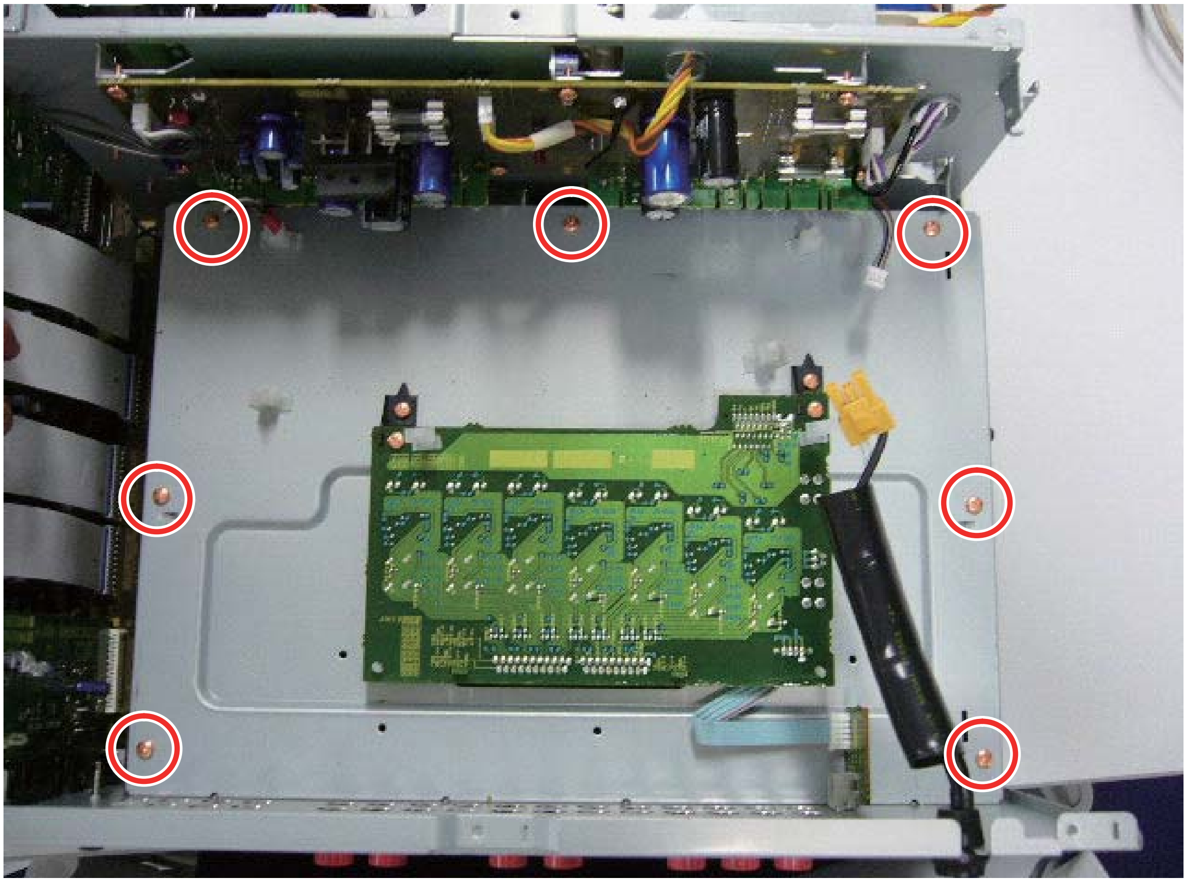
The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

ASSY NAME	PCB ASSY Part No.	Parts that is Difficult to Replace			
		Ref No.	FUNCTION	Part No.	Remarks
HDMI NETWORK ASSY	SC-07 : AWX9135 SC-05 : AWX9190	IC101	HDMI Receiver	SII9135CTU	IC with heat-pad
		IC701	MEDIA Processor	DM850E	IC with heat-pad
		IC791	iPod Co-Processor	341S2154	IC with heat-pad

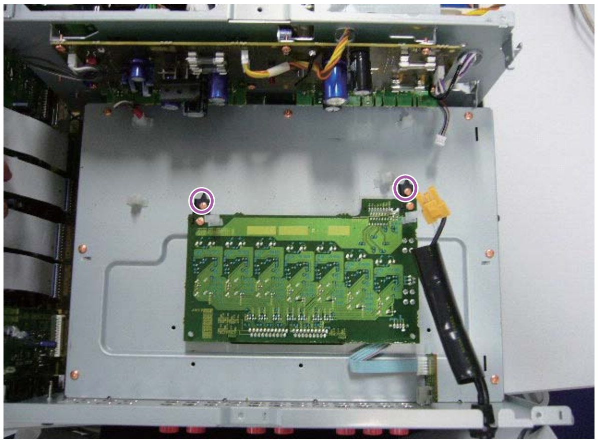
1.3 NOTES ON ASSEMBLING

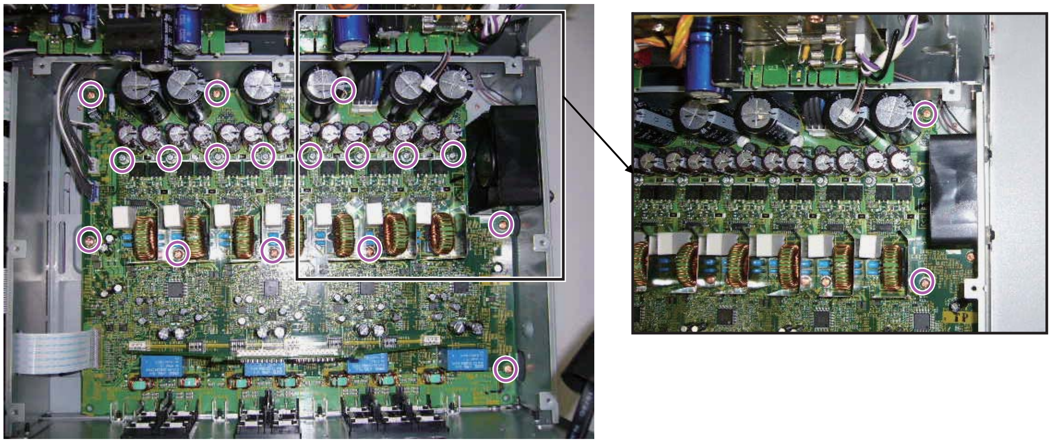
When assembling the ICE amplifier block, please note the following points of screws to prevent from short circuit.

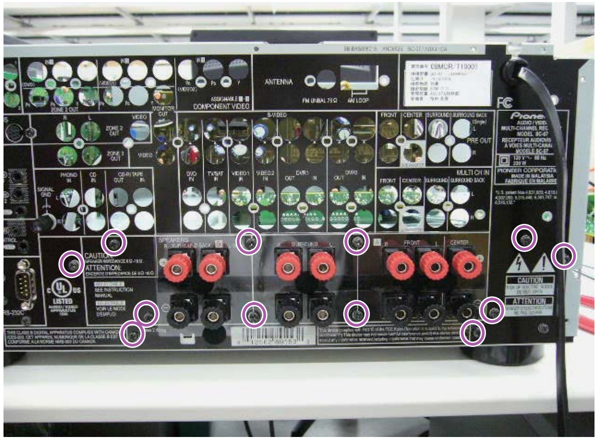
The following 7 points of screws must always be used PMH30P080FCC



Points to be watched for swarf



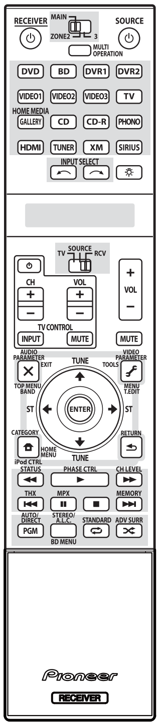




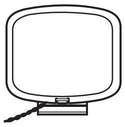
If a screw at any of these points needs to be removed for service,
be sure to check that the swarf is not on the screw before refastening.

2. SPECIFICATIONS

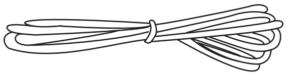
2.1 ACCESSORIES


RECEIVER
MAIN
ZONE2
3
SOURCE
MULTI OPERATION
DVD
BD
DVR1
DVR2
VIDEO1
VIDEO2
VIDEO3
TV
HOME MEDIA
GALLERY
CD
CD-R
PHONO
HDMI
TUNER
XM
SIRIUS
INPUT SELECT
SOURCE
TV
RCV
CH
VOL
VOL
TV CONTROL
INPUT
MUTE
MUTE
AUDIO PARAMETER
VIDEO PARAMETER
EXIT
TUNE
TOOLS
TOP MENU
BAND
MENU
T.EDIT
ST
ENTER
ST
CATEGORY
RETURN
HOME MENU
TUNE
iPod CTRL
STATUS
PHASE CTRL
CH LEVEL
THX
MPX
MEMORY
AUTO/DIRECT
STEREO/A.L.C.
STANDARD
ADV SURR
PGM
BD MENU
Pioneer
RECEIVER

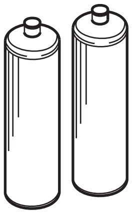
Remote Control Unit
(AXD7520)



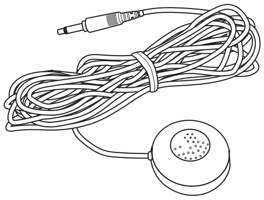
AM Loop Antenna
(ATB7013)



FM Wire Antenna
(ADH7030)

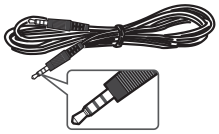


AA/IEC R6P
Dry Cell Batteries



Setup Microphone
(for Auto MCACC setup)
(APM7008)

SERVICE PARTS



SR+ mini-plug cable
(ADE7095)

2.2 SPECIFICATIONS

Specifications

Amplifier section

Continuous average power output of 140 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.09 % total harmonic distortion.**

Multi channel simultaneous power output (1 kHz, 1 %, 8 Ω)	
7ch total	700 W (SC-07)/630 W (SC-05)
Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.09 %)	
Front	140 W + 140 W
Center	140 W
Surround	140 W + 140 W
Surround back	140 W + 140 W
Continuous Power Output (1 kHz, 6 Ω, 1.0 %)	
Front	180 W + 180 W
Center	180 W
Surround	180 W + 180 W
Surround back	180 W + 180 W
Total harmonic distortion.	0.05 %
(20 Hz to 20 kHz, 130 W, 8 Ω)	

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers

** Measured by Audio Spectrum Analyzer

Audio Section

Input (Sensitivity/Impedance)	
PHONO MM	4.2 mV/47 kΩ
LINE	335 mV/47 kΩ
Frequency Response (LINE)	5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
REC	335 mV/2.2 kΩ
Signal-to-Noise Ratio (IHF, short circuited, A network)	
LINE	103 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
LINE	83 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 100 MHz

HDMI Section

Input.	19-pin
Output	19-pin (5 V, 100 mA)

Network Section

LAN terminal	10 BASE-T/100-BASE-TX

USB Section

USB terminal	USB2.0 Full Speed

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1700 kHz
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	330 W
In standby	0.4 W (HDMI Control OFF) 0.6 W (HDMI Control ON)
Dimensions	420 (W) mm x 200 (H) mm x 459.5 (D) mm (16 $^{9}/_{16}$ (W) in. x 7 $^{7}/_{8}$ (H) in. x 18 $^{1}/_{8}$ (D) in.)
Weight (without package)	18.5 kg (40.8 lb)

Furnished Parts

Setup microphone (for Auto MCACC Setup)	1
AA/IEC R6P dry cell batteries.	2
Remote control unit	1
AM loop antenna.	1
FM wire antenna	1
Warranty card	1
Operating instructions	

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

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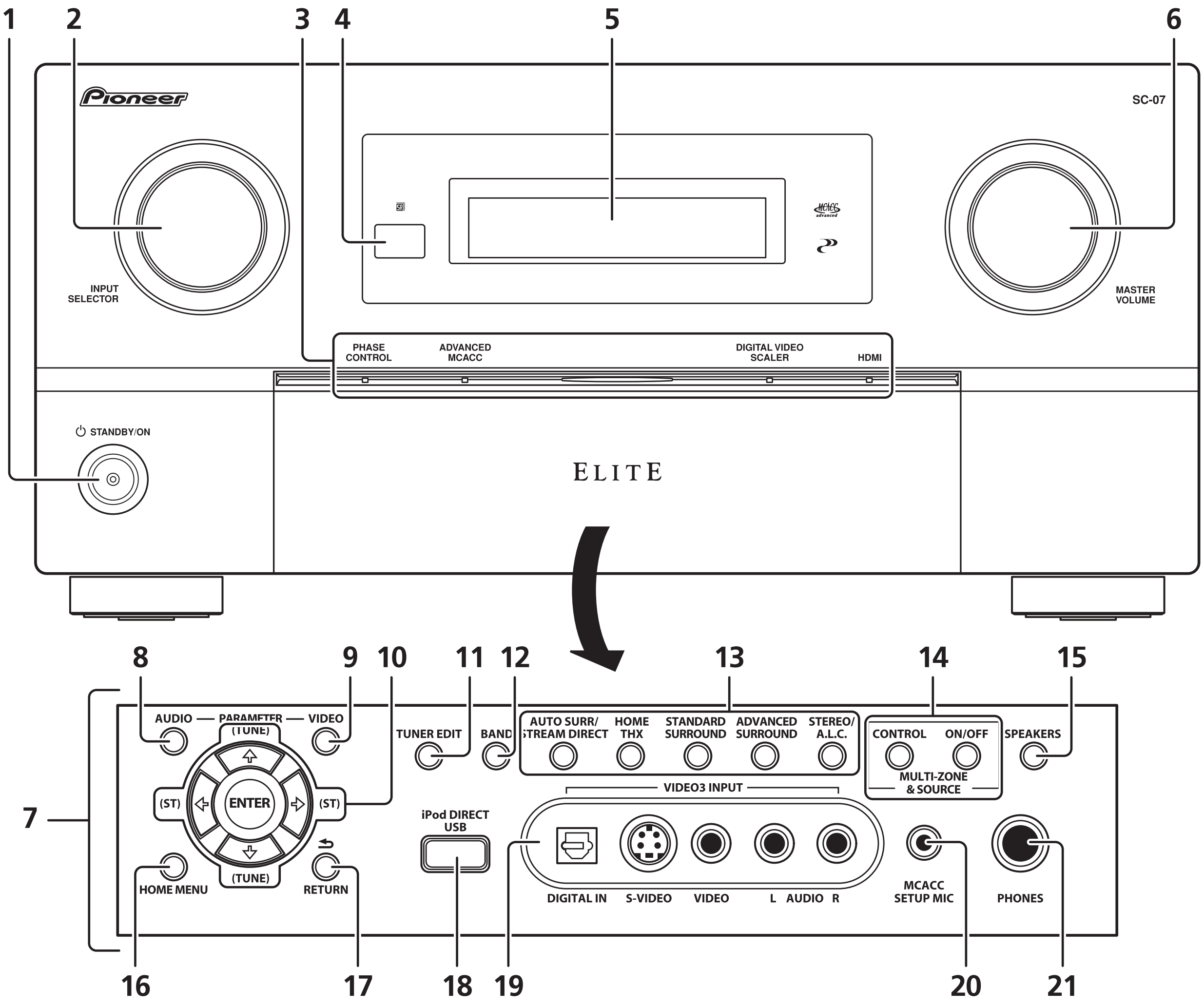
2.3 PANEL FACILITIES

[1] Front panel


1
2
3
4
5
6
Pioneer
SC-07
INPUT SELECTOR
MASTER VOLUME
PHASE CONTROL
ADVANCED MCACC
DIGITAL VIDEO SCALER
HDMI
STANDBY/ON
ELITE
7
8
9
10
11
12
13
14
15
AUDIO
PARAMETER
VIDEO
(TUNE)
(ST)
ENTER
(ST)
(TUNE)
HOME MENU
RETURN
TUNER EDIT
BAND
AUTO SURR/ STREAM DIRECT
HOME THX
STANDARD SURROUND
ADVANCED SURROUND
STEREO/ A.L.C.
CONTROL
ON/OFF
MULTI-ZONE & SOURCE
SPEAKERS
VIDEO3 INPUT
iPod DIRECT USB
DIGITAL IN
S-VIDEO
VIDEO
L AUDIO R
MCACC SETUP MIC
PHONES
16
17
18
19
20
21

1 ⏻ STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.

2 INPUT SELECTOR dial
Use to select an input source.

3 PHASE CONTROL indicator – Lights to indicate Phase Control or Full Band Phase Control is selected.
ADVANCED MCACC indicator – Lights when one of the Selecting MCACC presets is selected.
DIGITAL VIDEO SCALER indicator – Lights when Resolution is set to a setting other than **PURE** (for example, when the video input signal is upscaled
HDMI indicator – Blinks when connecting an HDMI-equipped component; lights when the component is connected.

4 Remote sensor
Receives the signals from the remote control.

5 Character display

6 MASTER VOLUME dial

7 Front panel controls
To access the front panel controls, push gently on the lower third portion of the panel with your finger.

8 AUDIO PARAMETER
Use to access the Audio options.

9 VIDEO PARAMETER
Use to access the Video options.

10 ⬆/⬇/⬅/➡ (TUNE/ST) /ENTER
Use the arrow buttons when setting up your **HOME MENU**.
Use **TUNE ⬆/⬇** to find radio frequencies and use
ST ⬅/➡ to find preset stations.

11 TUNER EDIT
Use with **⬆/⬇/⬅/➡/ENTER** to memorize and name stations for recall.

12 BAND
Switches between AM and FM radio bands.

13 Listening mode buttons

AUTO SURR/STREAM DIRECT – Press to select Auto Surround or Stream Direct listening.

HOME THX – Press to select a Home THX listening mode.

STANDARD SURROUND – Press for Standard decoding and to switch between the various DD Pro Logic IIx and Neo:6 options.

ADVANCED SURROUND – Use to switch between the various surround modes.

STEREO/A.L.C. – Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

14 MULTI-ZONE & SOURCE controls
If you've made MULTI-ZONE connections use these controls to control the sub zone from the main zone.

15 SPEAKERS
Use to change the speaker system.

16 HOME MENU
Press to access the HOME MENU.

17 RETURN
Press to confirm and exit the current menu screen.

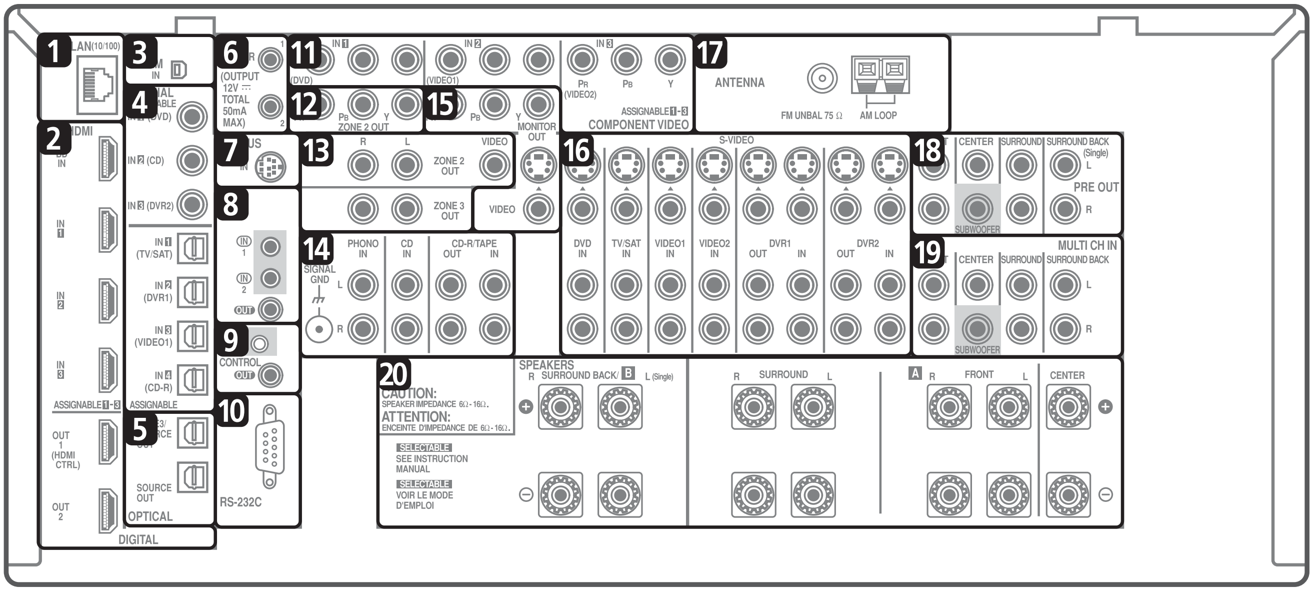
18 iPod DIRECT USB terminal
Use to connect your Apple iPod as an audio source, or connect a USB audio device for playback.

19 VIDEO 3 INPUT

20 MCACC SETUP MIC jack
Use to connect the supplied microphone.

21 PHONES jack
Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

[2] Rear panel


1
LAN(10/100)
2
HDMI
IN
IN 1
IN 2
IN 3
ASSIGNABLE 1 - 3
OUT 1 (HDMI CTRL)
OUT 2
3
IN
4
IN 2 (CD)
IN 3 (DVR2)
IN 1 (TV/SAT)
IN 2 (DVR1)
IN 3 (VIDEO1)
IN 4 (CD-R)
ASSIGNABLE
5
SOURCE OUT
OPTICAL
DIGITAL
6
(OUTPUT 12V TOTAL 50mA MAX)
7
8
IN 1
IN 2
OUT
9
CONTROL
OUT
10
RS-232C
11
IN 1
IN 2
IN 3
(DVD)
(VIDEO1)
PR
PB
Y
(VIDEO2)
ASSIGNABLE 1 - 3
COMPONENT VIDEO
12
ZONE 2 OUT
13
R
L
VIDEO
ZONE 2 OUT
ZONE 3 OUT
VIDEO
14
SIGNAL GND
PHONO IN
CD IN
CD-R/TAPE OUT IN
15
MONITOR OUT
16
S-VIDEO
DVD IN
TV/SAT IN
VIDEO1 IN
VIDEO2 IN
DVR1 OUT IN
DVR2 OUT IN
17
ANTENNA
FM UNBAL 75 Ω
AM LOOP
18
CENTER
SURROUND
SURROUND BACK (Single)
PRE OUT
SUBWOOFER
19
MULTI CH IN
CENTER
SURROUND
SURROUND BACK
SUBWOOFER
20
CAUTION:
SPEAKER IMPEDANCE 6Ω - 16Ω.
ATTENTION:
ENCEINTE D'IMPEDANCE DE 6Ω - 16Ω.
SELECTABLE
SEE INSTRUCTION MANUAL
SELECTABLE
VOIR LE MODE D'EMPLOI
SPEAKERS
SURROUND BACK/ B
L (Single)
SURROUND
A
FRONT
CENTER

Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 LAN (10/100) terminal

2 HDMI connectors (x6 (SC-07), x5 (SC-05))
Multiple inputs and one (SC-05) or two (SC-07) outputs for high-quality audio/video connection to compatible HDMI devices.

3 XM Radio input

4 Optical and coaxial digital audio inputs (x7 (SC-07), x6 (SC-05))
Use for digital audio sources, including DVD players/ recorders, digital satellite receivers, CD players, etc.

5 Optical digital audio outputs (x2)
Use for recording to a CD or MiniDisc recorder. **ZONE3/SOURCE OUT** jack is also used for MULTI-ZONE connections.

6 12 V trigger jacks (total 50 mA max.) **(x2)**
Use to switch components in your system on and off according to the input function of the receiver.

7 SIRIUS Radio input

8 Remote inputs/output
Use for connection to an external remote control sensor for use in a MULTI-ZONE setup, for example.

9 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.

10 RS-232C connector
Use for connection to a PC for graphical output when using Advanced MCACC or Full Band Phase Control.

11 Component video inputs (x3)
Use the inputs to connect any video source that has component video output, such as a DVD player.

12 SC-07 only: **ZONE 2 component video output**
Use to connect monitors or TVs in a separate room.

13 MULTI-ZONE audio/video outputs
Use to connect a second or third amplifier and monitors or TVs in a separate room.

14 Stereo analog audio source inputs/(outputs) (x4)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.

15 Composite, S-Video and Component monitor outputs
Use to connect monitors and TVs.

16 Audio/video source inputs/(outputs) (x8)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-Video and stereo analog audio.

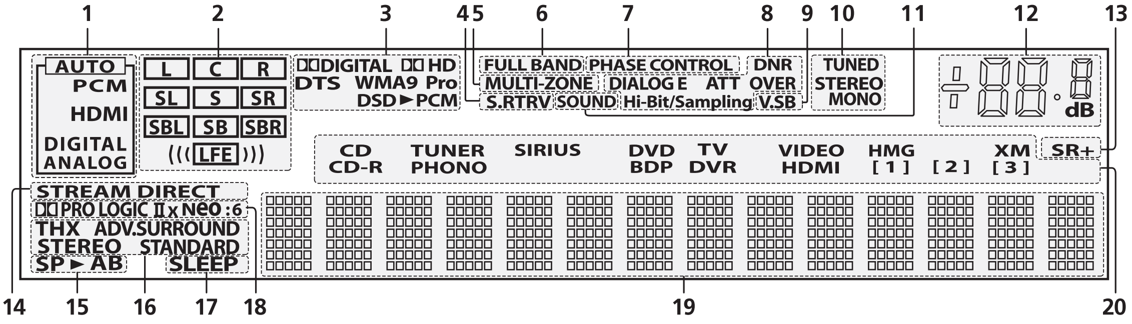
17 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.

18 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.

19 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

20 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.

[3] Display


1
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11
12
13
AUTO
PCM
HDMI
DIGITAL
ANALOG
L
C
R
SL
S
SR
SBL
SB
SBR
(((LFE)))
DD DIGITAL DD HD
DTS WMA9 Pro
DSD►PCM
FULL BAND
PHASE CONTROL
DNR
MULTI-ZONE
DIALOG E
ATT
OVER
S.RTRV
SOUND
Hi-Bit/Sampling
V.SB
TUNED
STEREO
MONO
dB
CD
CD-R
TUNER
PHONO
SIRIUS
DVD
BDP
TV
DVR
VIDEO
HDMI
HMG
[1]
[2]
XM
[3]
SR+
STREAM DIRECT
DD PRO LOGIC IIx Neo:6
THX
ADV.SURROUND
STEREO
STANDARD
SP ► AB
SLEEP
14
15
16
17
18
19
20

1 SIGNAL indicators
Light to indicate the currently selected input signal. **AUTO** lights when the receiver is set to select the input signal automatically.

2 Program format indicators
These change according to which channels are active in digital sources.

L – Left front channel
C – Center channel
R – Right front channel
SL – Left surround channel
S – Surround channel (mono)
SR – Right surround channel
SBL – Left surround back channel
SB – Surround back channel (mono)
SBR – Right surround back channel
LFE – Low frequency effects channel (the **((( )))** indicators light when an LFE signal is being input)

3 Digital format indicators
Light when a signal encoded in the corresponding format is detected (**DSD►PCM** lights during DSD (Digital Stream Direct) to PCM conversion with SACDs).

4 S.RTRV
Lights when the Sound Retriever is switched on.

5 MULTI-ZONE
Lights when the MULTI-ZONE feature is active.

6 FULL BAND
Lights when the Full Band Phase Control is switched on.

7 PHASE CONTROL
Lights when the Phase Control or Full Band Phase Control is switched on.

8 Sound processing indicators
Light according to the active Audio parameter(s) and/or **ANALOG ATT**.

9 V.SB
Lights during Virtual surround back processing.

10 TUNER indicators

TUNED – Lights when a broadcast is being received.
STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.
MONO – Lights when the mono mode is set using **MPX**.

11 SOUND
Lights when any of the Midnight, Loudness or tone controls feature is selected.

12 Master volume level
Shows the overall volume level. **–80dB** indicates the minimum level, and **+12dB** indicates the maximum level.

13 SR+
Lights when the SR+ mode is switched on.

14 STREAM DIRECT
Lights when Direct/Pure Direct is selected.

15 Speaker indicators
Lights to indicate the current speaker system, **A** and/or **B**.

16 Listening mode indicators

THX – Lights when one of the Home THX modes is selected.
ADV.SURROUND – Lights when one of the Advanced Surround modes has been selected.
STEREO – Lights when stereo listening is switched on.
STANDARD – Lights when one of the Standard Surround modes is switched on.

17 SLEEP
Lights when the receiver is in sleep mode.

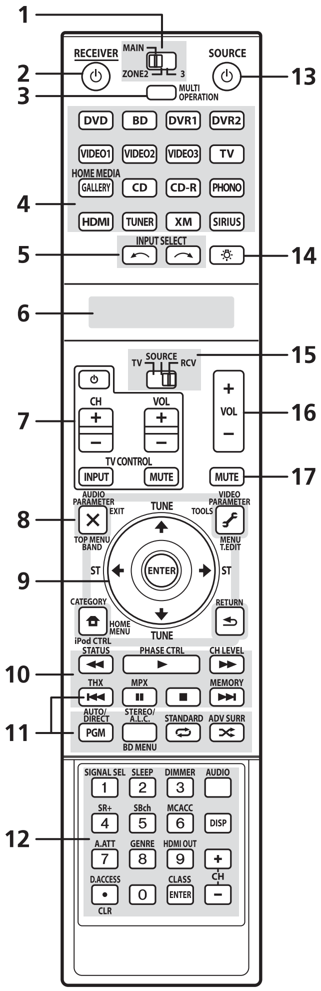
18 Matrix decoding format indicators

DDPRO LOGIC IIx – This lights to indicate DD Pro Logic II / DD Pro Logic IIx decoding.
Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

19 Character display
Displays various system information.

20 Input source indicators
Light to indicate the input source you have selected.

[4] Remote control


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
RECEIVER
MAIN
ZONE2
3
SOURCE
MULTI OPERATION
DVD
BD
DVR1
DVR2
VIDEO1
VIDEO2
VIDEO3
TV
HOME MEDIA GALLERY
CD
CD-R
PHONO
HDMI
TUNER
XM
SIRIUS
INPUT SELECT
SOURCE
TV
RCV
CH
VOL
TV CONTROL
INPUT
MUTE
VOL
MUTE
AUDIO PARAMETER
EXIT
TUNE
TOOLS
VIDEO PARAMETER
TOP MENU BAND
MENU T.EDIT
ST
ENTER
ST
CATEGORY
HOME MENU
TUNE
RETURN
iPod CTRL
STATUS
PHASE CTRL
CH LEVEL
THX
MPX
MEMORY
AUTO/DIRECT
STEREO/A.L.C.
STANDARD
ADV SURR
PGM
BD MENU
SIGNAL SEL
SLEEP
DIMMER
AUDIO
1
2
3
SR+
SBch
MCACC
4
5
6
DISP
A.ATT
GENRE
HDMI OUT
7
8
9
CH
D.ACCESS
CLASS
0
ENTER
CLR

The remote has been conveniently color-coded according to component control using the following system:
- **White** – Receiver control, TV Control
- **Blue** – Other controls

1 MULTI-ZONE operation selector switch
Switch to perform operations in the main zone, zone 2 and zone 3.

2 RECEIVER ⏻
This switches between standby and on for this receiver.

3 MULTI OPERATION
Use this button to perform multi operations.

4 Input source buttons
Press to select control of other components.

5 INPUT SELECT
Use to select the input source.

6 Character display (LCD)
This display shows information when transmitting control signals.

The following commands are shown when you're setting the remote to control other components:

SETUP – Indicates the setup mode, from which you choose the options below.
PRESET –
LEARNING –
MULTI OP –
SYS OFF –
DIRECT F –
RENAME –
ERASE –
RESET –
READ ID –

7 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to **TV** operation selector switch. Thus if you only have one TV to hook up to this system assign it to the **TV** operation selector switch.

⏻ – Use to turn on/off the power of the TV.
VOL +/– – Use to adjust the volume on your TV.
INPUT – Use to select the TV input signal.
CH +/– – Use to select channels.
MUTE – Use to mute the sound or cancel the mute mode.

8 Tuner/component control buttons/HOME MENU
These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR 1**, **TV**, etc.).
Set the operation selector switch to **RCV** to access the following controls:

AUDIO PARAMETER – Use to access the Audio options.
VIDEO PARAMETER – Use to access the Video options.
HOME MENU – Use to access the HOME MENU.
RETURN – Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

9 ⬆/⬇/⬅/➡ (TUNE/ST) /ENTER
Use the arrow buttons when setting up your surround sound system and the Audio or Video options. Also used to control DVD menus/ options and for deck 1 of a double cassette deck player.
Use **TUNE ⬆/⬇** to find radio frequencies and use **ST ⬅/➡** to find preset stations.

10 Component control buttons
The main buttons (▶, ■, etc.) are used to control a component after you have selected it using the input source buttons.
The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**, **DVR 1** or **TV**). These buttons also function as described below.
Press **TUNER** first to access:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak, then switching to mono will improve the sound quality.
NOISE CUT MODE 1 to 2 can be selected when receiving AM broadcasts.

Set the operation selector switch to **RCV** first to access:

STATUS – Press to check selected receiver settings.
PHASE CTRL – Press to switch on/off Phase Control or Full Band Phase Control.
CH LEVEL – Press repeatedly to select a channel, then use ⬅/➡ to adjust the level.

11 Receiver controls

AUTO/DIRECT – Press to select Auto Surround or Stream Direct listening.
STEREO/A.L.C. – Switches between the stereo playback mode and the Front Stage Surround Advance mode.
STANDARD – Press for Standard decoding and to switch between the various DD Pro Logic IIx and Neo:6 options.
ADV SURR – Use to switch between the various surround modes.
THX – Press to select a Home THX listening mode.

12 Number buttons and other receiver/component controls

Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.
ENTER can be used to enter commands for TV or DTV.
After set the remote control operation switch to **RCV**:

SIGNAL SEL – Use to select an input signal.

SLEEP – Use to put the receiver in sleep mode and select the amount of time before sleep.
DIMMER – Dims or brightens the display.
SR+ – Switches the SR+ mode on/off.
SBch – Use to select the surround/virtual back channel mode.
MCACC – Press to switch between MCACC presets.
A.ATT – Attenuates (lowers) the level of an analog input signal to prevent distortion.
GENRE – Automatically selects the most appropriate Advanced Surround mode for the genre of the source currently being played back (this feature is available only when a Pioneer DVD recorder supporting HDMI Control is connected to this receiver via HDMI).
SC-07 only: **HDMI OUT** – Switch the HDMI output terminal.

Press **TUNER** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.
CLASS – Switches between the three banks (classes) of radio station presets.

13 SOURCE ⏻

Press to turn on/off other components connected to the receiver.

14 Remote control illumination button

Press to turn on/off the illumination of some of the buttons and the LCD light.

15 Remote control operation selector switch

Set to **RCV** to operate the receiver, **TV** or **SOURCE** to operate the TV or the source device.
When this switch is set to **RCV**, the receiver can be controlled (used to select the white commands above the number buttons (**A.ATT**, etc.). Also use this switch to set up surround sound.

16 VOL +/–

Use to set the listening volume.

17 MUTE

Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedures	Item to be checked
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the sound from headphone output.	Sound must be normal, without noise.
7	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding video and audio:

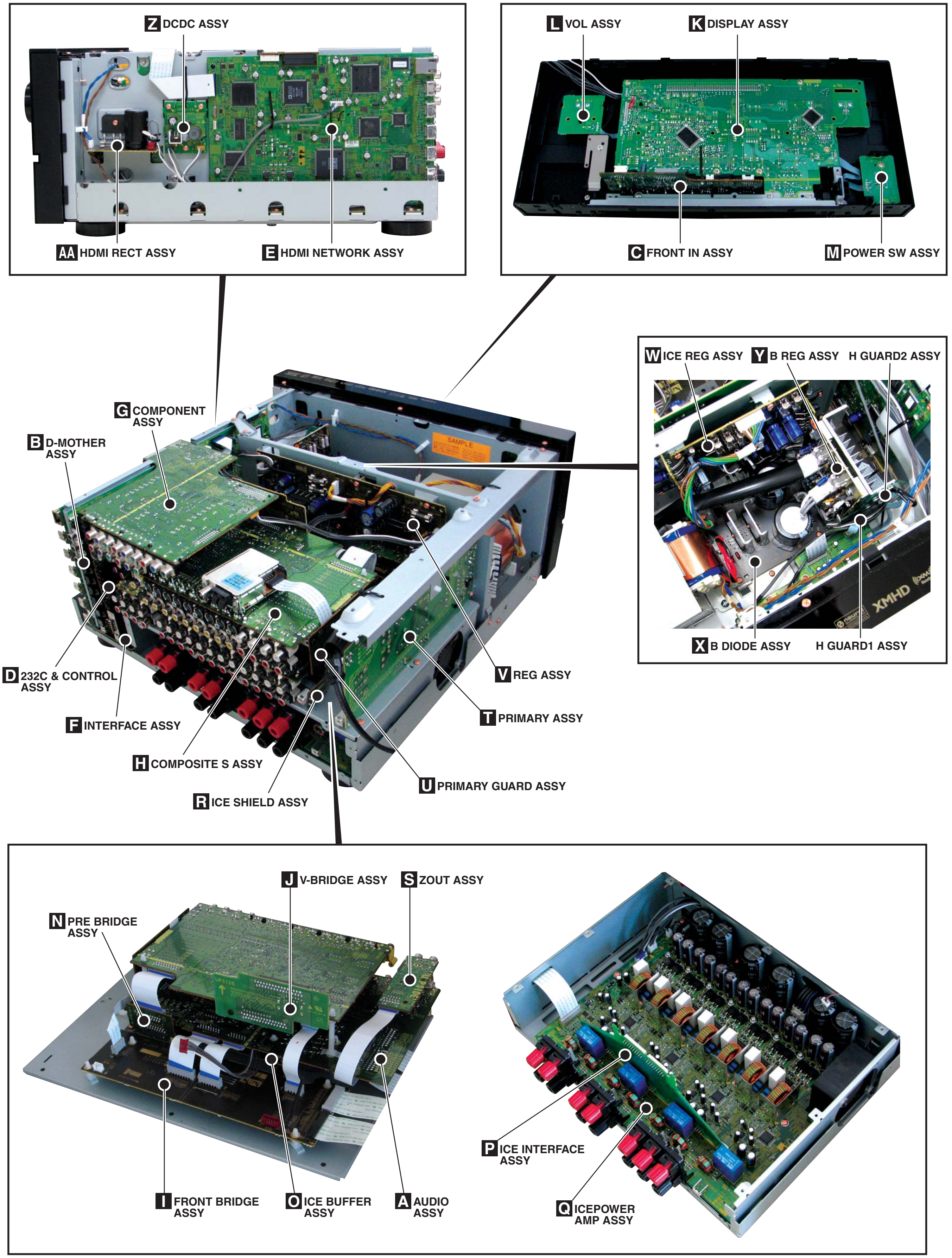
Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

● Cleaning the Fan

Before shipment, be sure to clean the fan, using the following cleaning materials:

Cleaning paper : GED-008

3.2 PCB LOCATIONS


Z DCDC ASSY
AA HDMI RECT ASSY
E HDMI NETWORK ASSY
L VOL ASSY
K DISPLAY ASSY
C FRONT IN ASSY
M POWER SW ASSY
W ICE REG ASSY
Y B REG ASSY
H GUARD2 ASSY
X B DIODE ASSY
H GUARD1 ASSY
G COMPONENT ASSY
B D-MOTHER ASSY
D 232C & CONTROL ASSY
F INTERFACE ASSY
H COMPOSITE S ASSY
R ICE SHIELD ASSY
V REG ASSY
T PRIMARY ASSY
U PRIMARY GUARD ASSY
J V-BRIDGE ASSY
S ZOUT ASSY
N PRE BRIDGE ASSY
I FRONT BRIDGE ASSY
O ICE BUFFER ASSY
A AUDIO ASSY
P ICE INTERFACE ASSY
Q ICEPOWER AMP ASSY

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

◆ LIST OF ASSEMBLIES

Mark	Symbol and Description	SC-07/KUXJ /CA	SC-05/KUXJ /CA
	1..ICEPOWER AMP ASSY	AWH7015	AWH7015
NSP	1..COMPOSITE ICE ASSY	AWM8106	AWM8106
	2..COMPOSITE S ASSY	AWX9144	AWX9144
	2..ICE BUFFER ASSY	AWX9145	AWX9145
	2..PRE BRIDGE ASSY	AWX9146	AWX9146
	2..ICE SHIELD ASSY	AWX9173	AWX9173
NSP	1..PRIM DISPLAY ASSY	AWM8119	AWM8128
	2..PRIMARY ASSY	AWX9154	AWX9154
	2..HDMI RECT ASSY	AWX9156	AWX9156
	2..DISPLAY ASSY	AWX9158	AWX9238
	2..VOL ASSY	AWX9159	AWX9159
	2..POWER SW ASSY	AWX9160	AWX9160
	2..V-BRIDGE ASSY	AWX9161	AWX9161
NSP	1..DIGITAL MOTHER ASSY	AWP7057	AWP7063
	2..D-MOTHER ASSY	AWX9136	AWX9201
	2..ICE INTERFACE ASSY	AWX9137	AWX9137
	2..DCDC ASSY	AWX9138	AWX9138
	2..H GUARD2 ASSY	AWX9147	AWX9147
	2..H GUARD1 ASSY	AWX9174	AWX9174
NSP	1..COMPONENT FIN ASSY	AWQ7058	AWQ7061
	2..COMPONENT ASSY	AWX9141	AWX9211
	2..FRONT IN ASSY	AWX9142	AWX9142
	2..ZOUT ASSY	AWX9143	AWX9143
NSP	1..INTERFACE REG ASSY	AWR7067	AWR7067
	2..INTERFACE ASSY	AWX9148	AWX9148
	2..ICE REG ASSY	AWX9149	AWX9149
	2..B REG ASSY	AWX9150	AWX9150
	2..B DIODE ASSY	AWX9171	AWX9171
NSP	1..FBRIDGE REG ASSY	AWR7068	AWR7068
	2..REG ASSY	AWX9152	AWX9152
	2..FRONT BRIDGE ASSY	AWX9155	AWX9155
NSP	1..AUDIO ASSY	AWR7070	AWR7070
	2..AUDIO ASSY	AWX9139	AWX9139
	2..232C & CONTROL ASSY	AWX9140	AWX9140
	2..PRIMARY GUARD ASSY	AWX9172	AWX9172
	1..HDMI/NETWORK ASSY	AWX9135	AWX9190

3.3 JIGS LIST

[1] Jigs List

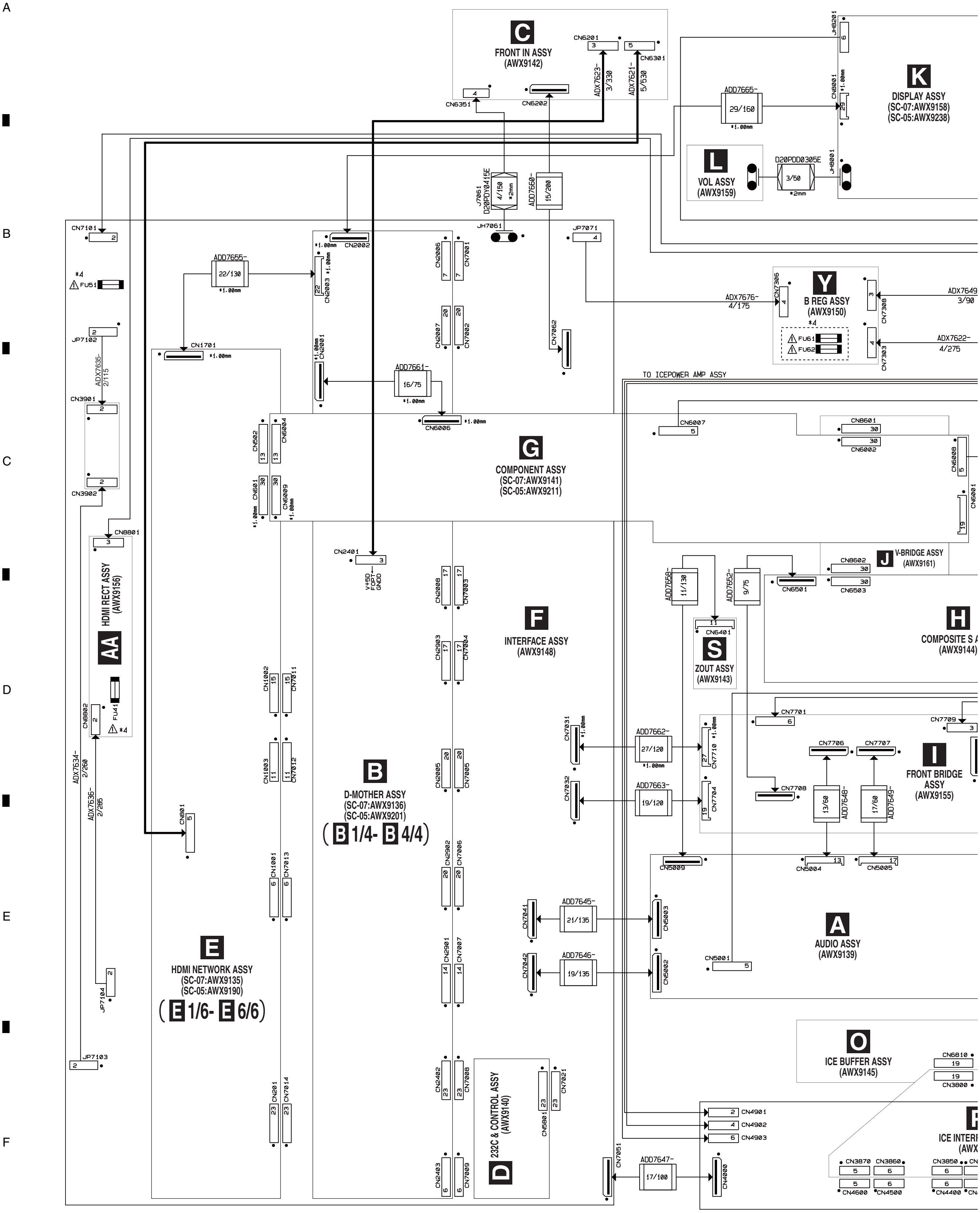
Name	Jig No.	Remarks
27P FFC	GGD1588	Diagnosis
19P FFC	GGD1589	Diagnosis
21P FFC	GGD1590	Diagnosis
16P FFC	GGD1591	Diagnosis
30p+13p board to board extension cable	GGD1592	Diagnosis
17p+19p board to board extension cable	GGD1593	Diagnosis
5p extension cable	GGD1594	Diagnosis

[2] Lubricants and Glues List

Name	Lubricants and Glues No.	Remarks
Lubicating Oil	GYA1001	Refer to “9.5 FRONT PANEL SECTION”
Silicone Grease	GEM1057	Refer to “9.3 CHASSIS SECTION”

4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM


A
B
C
D
E
F
C
FRONT IN ASSY
(AWX9142)
CN6201
3
5
CN6301
CN6351
4
CN6202
ADX7623-
3/330
ADX7621-
5/530
J7061
D20PDY0415E
4/150
*2mm
ADD7560-
15/200
JH7061
JP7071
4
K
DISPLAY ASSY
(SC-07:AWX9158)
(SC-05:AWX9238)
JH8201
6
CN8001
29
*1.00mm
ADD7665-
29/160
*1.00mm
L
VOL ASSY
(AWX9159)
D20PDD0305E
3/50
*2mm
JH8001
CN7101
2
*4
FU51
ADD7655-
22/130
*1.00mm
CN2002
*1.00mm
CN2003
22
CN2006
7
CN7001
7
CN2007
20
CN7002
20
JP7102
2
ADX7635-
2/115
CN1701
*1.00mm
CN2001
*1.00mm
ADD7661-
16/75
*1.00mm
CN6006
*1.00mm
CN7062
Y
B REG ASSY
(AWX9150)
CN7306
4
ADX7676-
4/175
CN7308
3
ADX7649
3/90
*4
FU61
FU62
CN7303
4
ADX7622-
4/275
TO ICEPOWER AMP ASSY
CN3901
2
CN3902
2
CN502
13
CN6004
13
CN601
30
CN6009
30
*1.00mm
*1.00mm
G
COMPONENT ASSY
(SC-07:AWX9141)
(SC-05:AWX9211)
CN6007
5
CN8601
30
CN6002
30
CN6008
5
CN6001
19
CN8801
3
HDMI RECT ASSY
(AWX9156)
AA
FU41
*4
CN8802
2
CN2401
3
V+5D
FOPT
GND
CN2008
17
CN7003
17
CN2903
17
CN7004
17
F
INTERFACE ASSY
(AWX9148)
J
V-BRIDGE ASSY
(AWX9161)
CN8602
30
CN8603
30
ADD7658-
11/130
ADD7652-
9/75
CN6501
CN6503
11
CN6401
S
ZOUT ASSY
(AWX9143)
H
COMPOSITE S A
(AWX9144)
CN1002
15
CN7011
15
CN1003
11
CN7012
11
ADX7634-
2/260
ADX7636-
2/285
CN801
5
B
D-MOTHER ASSY
(SC-07:AWX9136)
(SC-05:AWX9201)
(B 1/4- B 4/4)
CN2005
20
CN7005
20
CN7031
*1.00mm
ADD7662-
27/120
*1.00mm
CN7710
27
*1.00mm
CN7032
ADD7663-
19/120
CN7704
19
CN7701
6
CN7709
3
CN7706
CN7707
I
FRONT BRIDGE
ASSY
(AWX9155)
CN7708
13/60
ADD7648-
17/60
ADD7649-
CN5009
CN5004
13
CN5005
17
CN1001
6
CN7013
6
CN2902
20
CN7006
20
CN7041
ADD7645-
21/135
CN5003
CN7042
ADD7646-
19/135
CN5002
A
AUDIO ASSY
(AWX9139)
CN5001
5
E
HDMI NETWORK ASSY
(SC-07:AWX9135)
(SC-05:AWX9190)
(E 1/6- E 6/6)
JP7104
2
CN2901
14
CN7007
14
O
ICE BUFFER ASSY
(AWX9145)
CN6810
19
19
CN3800
JP7103
2
CN201
23
CN7014
23
CN2402
23
CN7008
23
232C & CONTROL ASSY
(AWX9140)
D
CN5801
23
CN7021
23
CN4901
2
CN4902
4
CN4903
6
ICE INTER
(AW
CN7051
ADD7647-
17/100
CN4000
CN2403
6
CN7009
6
CN3870
5
CN3860
6
CN3850
6
5
CN4600
6
CN4500
6
CN4400

CAUTION – FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

*4 ⚠

	FU1	FU2	FU11, FU12	FU13, FU14	FU15	FU21, FU22	FU31, FU32	FU41	FU51	FU61, FU62
KU	VEK1029- (10A/125V)	-	REK1143- (1.25A/125V)	REK1142- (1A/125V)	REK1143- (1.25A/125V)	REK1142- (1A/125V)	REK1143- (1.25A/125V)	REK1149- (4A/125V)	REK1147- (3A/125V)	REK1154- (10A/125V)

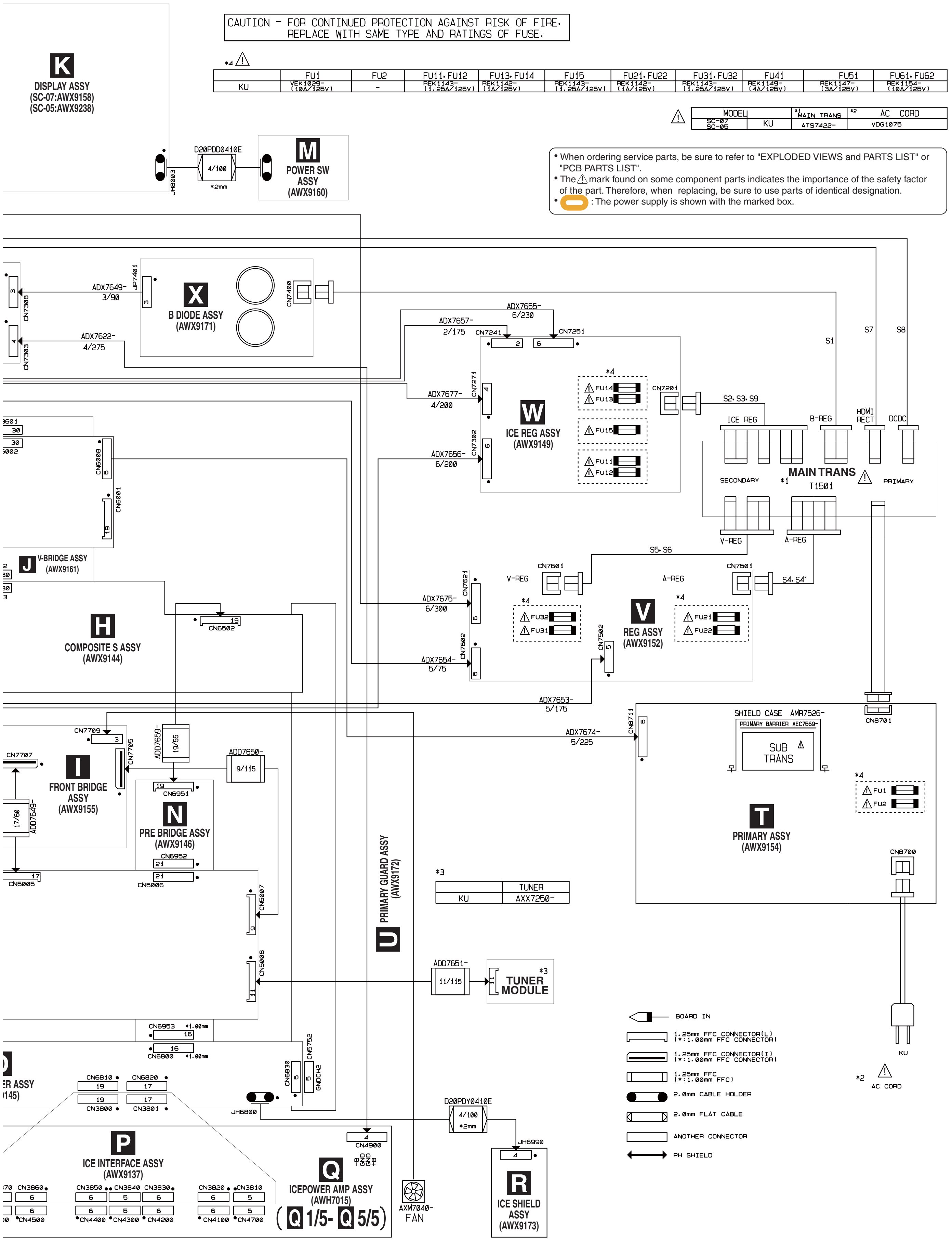
⚠

MODEL		*1 MAIN TRANS	*2 AC CORD
SC-07 SC-05	KU	ATS7422-	VDG1075

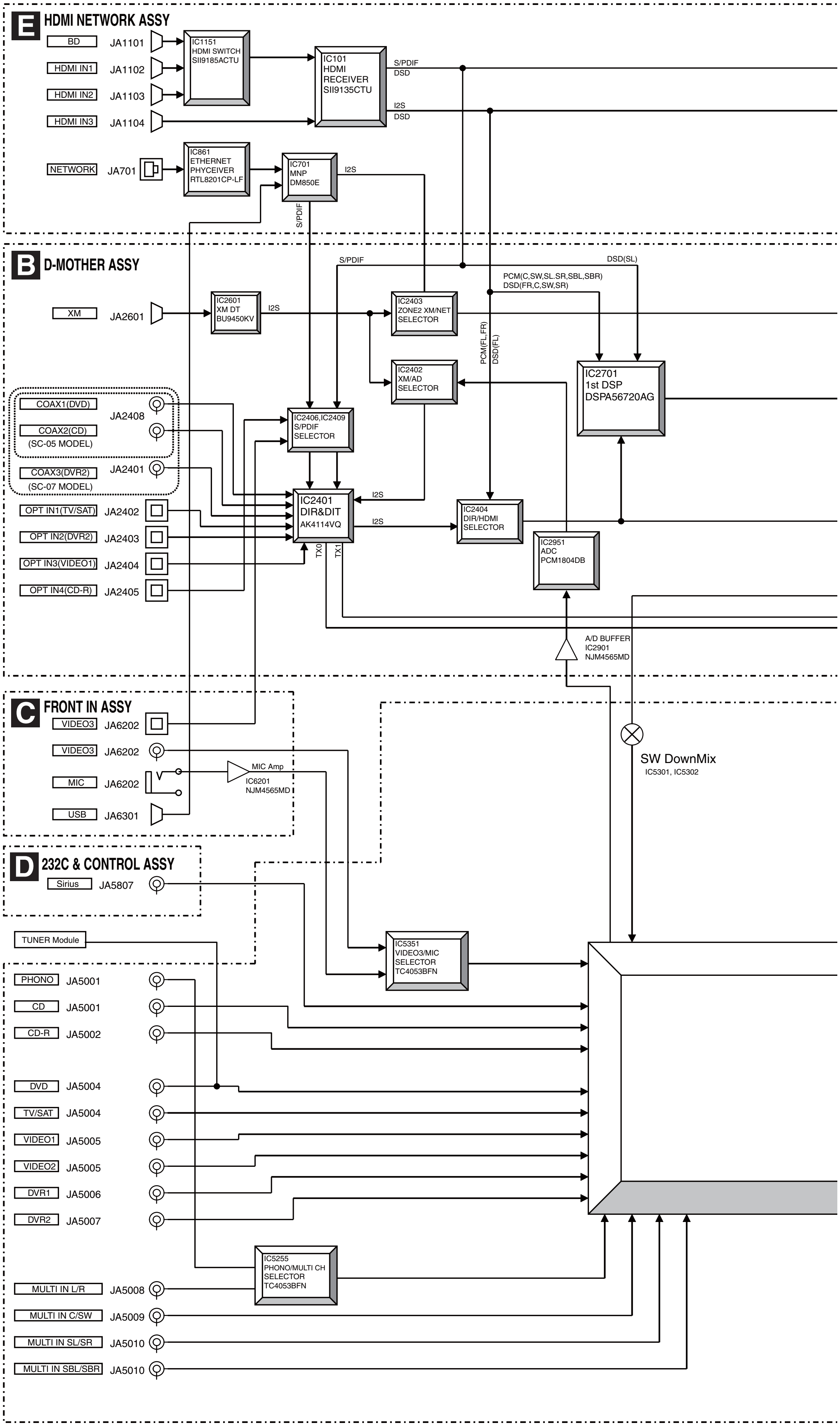
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ▭ : The power supply is shown with the marked box.

*3

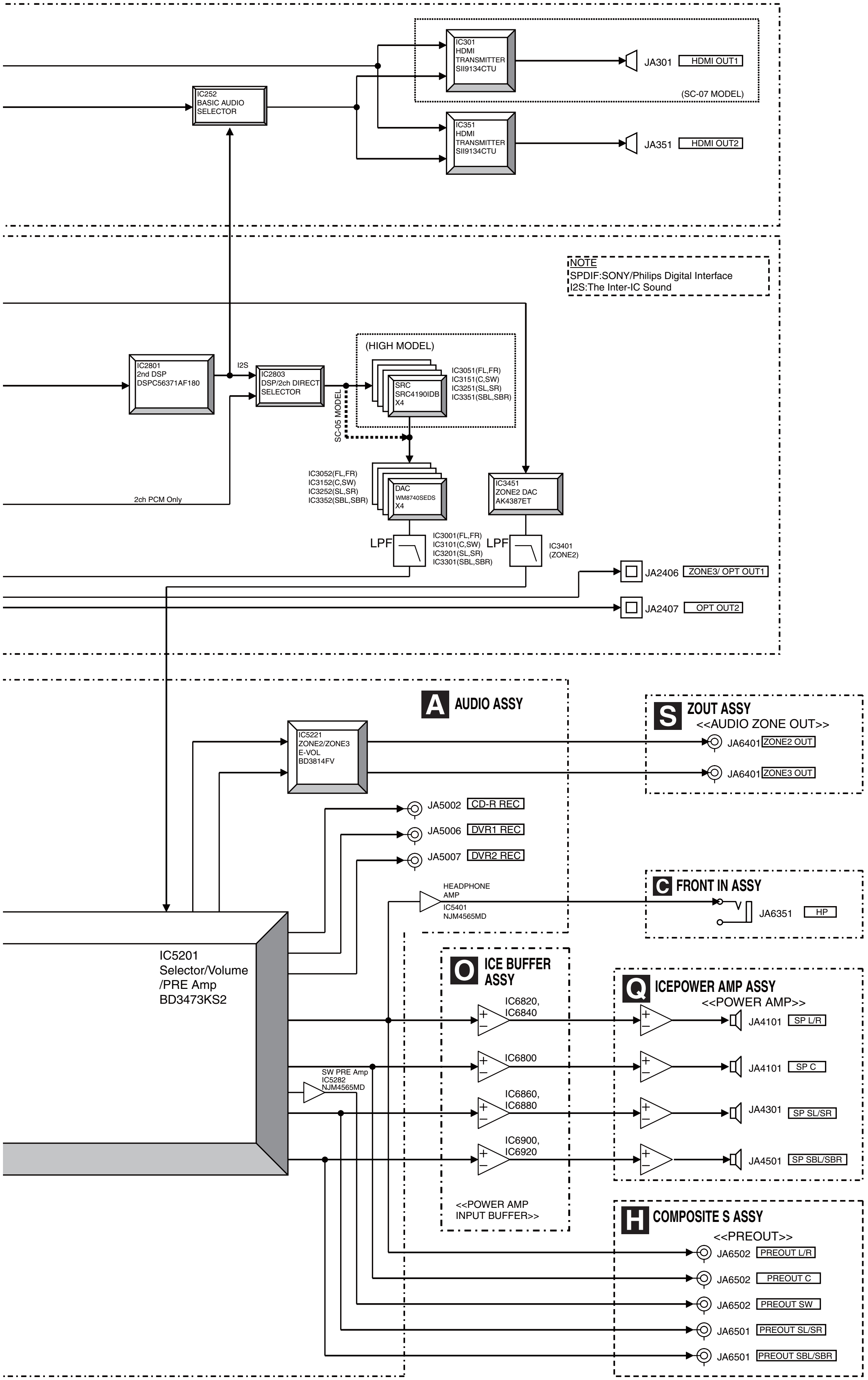
	TUNER
KU	AXX7250-


K DISPLAY ASSY (SC-07:AWX9158) (SC-05:AWX9238)
JH8003
D20PDD0410E
4/100
*2mm
M POWER SW ASSY (AWX9160)
X B DIODE ASSY (AWX9171)
JP7401
CN7400
CN7308
CN7303
ADX7649- 3/90
ADX7622- 4/275
ADX7655- 6/230
ADX7657- 2/175
CN7241
CN7251
CN7271
CN7302
CN7201
ADX7677- 4/200
ADX7656- 6/200
W ICE REG ASSY (AWX9149)
FU14
FU13
FU15
FU11
FU12
S2, S3, S9
S1
S7
S8
ICE REG
B-REG
HDMI RECT
DCDC
MAIN TRANS
T1501
SECONDARY
PRIMARY
V-REG
A-REG
S5, S6
S4, S4'
CN7601
CN7501
CN7521
CN7602
CN7502
ADX7675- 6/300
ADX7654- 5/75
ADX7653- 5/175
V REG ASSY (AWX9152)
FU32
FU31
FU21
FU22
CN6008
CN6001
J V-BRIDGE ASSY (AWX9161)
H COMPOSITE S ASSY (AWX9144)
CN6502
CN7709
CN7707
CN7705
I FRONT BRIDGE ASSY (AWX9155)
ADD7649- 17/60
ADD7659- 19/55
ADD7650- 9/115
CN6951
N PRE BRIDGE ASSY (AWX9146)
CN6952
CN5005
CN5006
CN5007
CN5008
CN6953 *1.00mm
CN6800 *1.00mm
CN6830
CN5752
GNDCH2
CN6810
CN6820
CN3800
CN3801
JH6800
P ICE INTERFACE ASSY (AWX9137)
CN3860 CN3850 CN3840 CN3830 CN3820 CN3810
CN4500 CN4400 CN4300 CN4200 CN4100 CN4700
Q ICEPOWER AMP ASSY (AWH7015)
(Q 1/5- Q 5/5)
CN4900
U PRIMARY GUARD ASSY (AWX9172)
ADX7674- 5/225
ADD7651- 11/115
TUNER MODULE *3
AXM7040- FAN
D20PDY0410E
4/100 *2mm
JH6990
R ICE SHIELD ASSY (AWX9173)
CN8711
SHIELD CASE AMR7526-
PRIMARY BARRIER AEC7569-
SUB TRANS
CN8701
FU1
FU2
T PRIMARY ASSY (AWX9154)
CN8700
KU
*2 AC CORD
BOARD IN
1.25mm FFC CONNECTOR(L) (*:1.00mm FFC CONNECTOR)
1.25mm FFC CONNECTOR(I) (*:1.00mm FFC CONNECTOR)
1.25mm FFC (*:1.00mm FFC)
2.0mm CABLE HOLDER
2.0mm FLAT CABLE
ANOTHER CONNECTOR
PH SHIELD

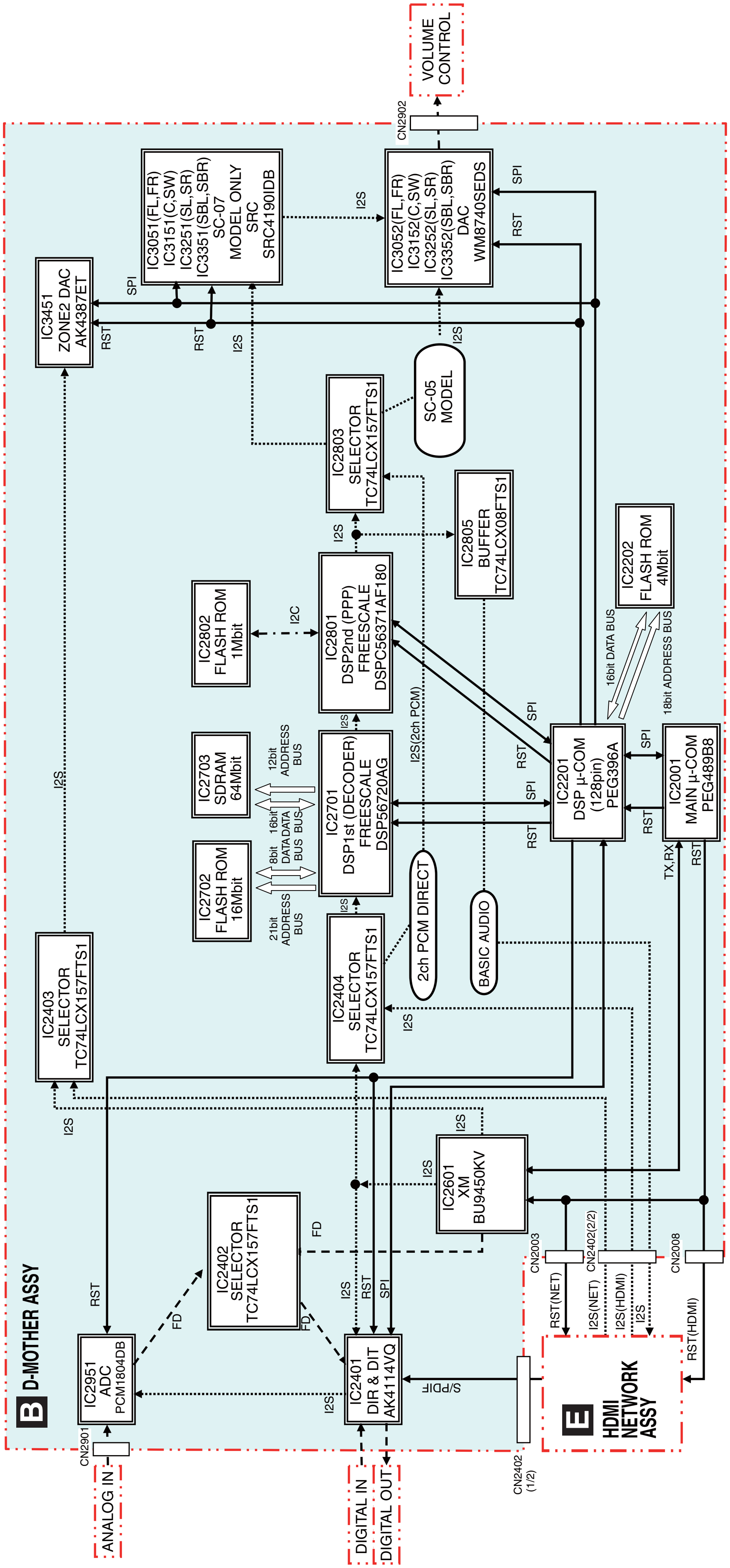
4.2 AUDIO BLOCK DIAGRAM



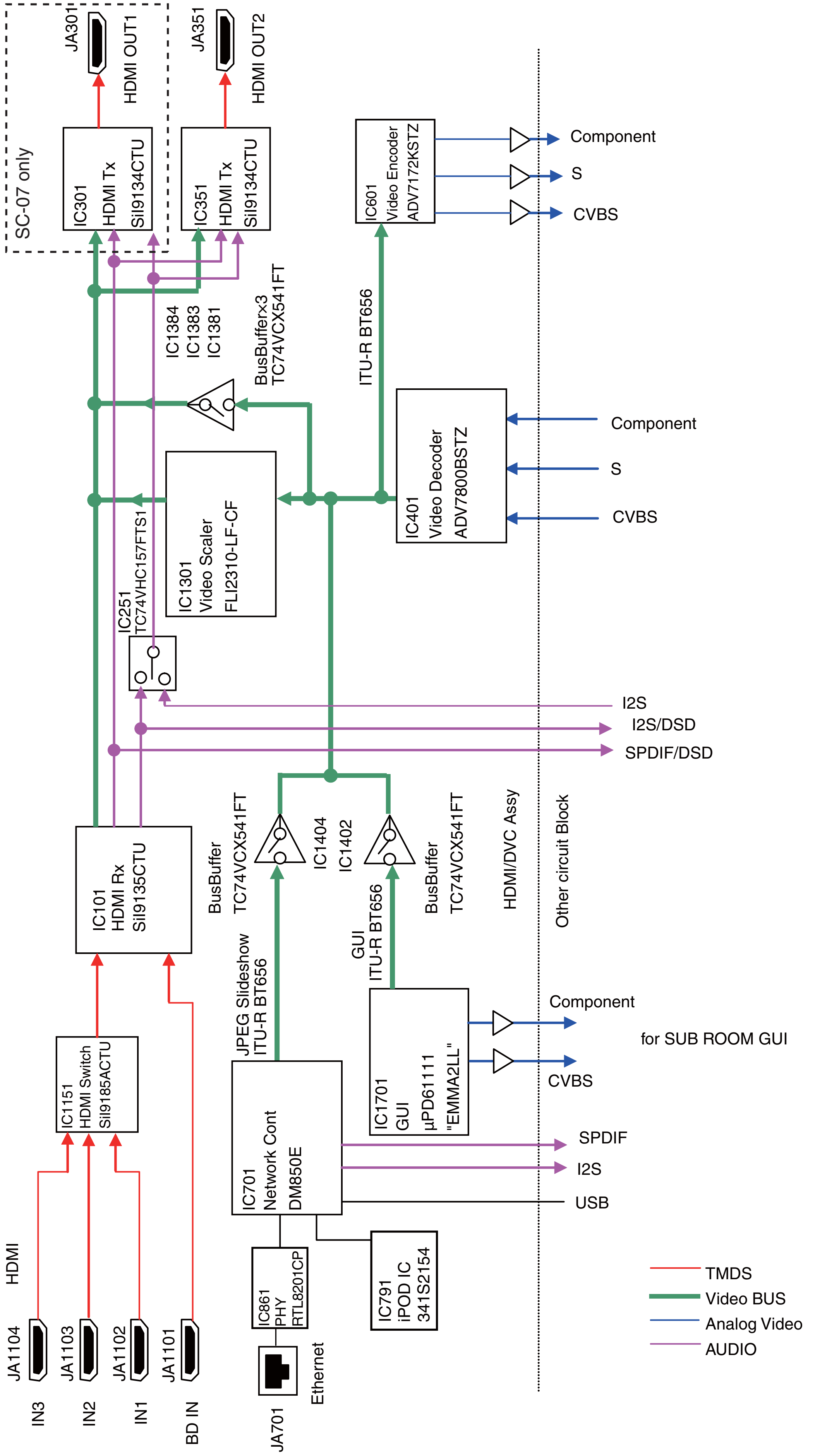
E
HDMI NETWORK ASSY
BD
JA1101
HDMI IN1
JA1102
HDMI IN2
JA1103
HDMI IN3
JA1104
IC1151
HDMI SWITCH
SII9185ACTU
IC101
HDMI
RECEIVER
SII9135CTU
S/PDIF
DSD
I2S
DSD
NETWORK
JA701
IC861
ETHERNET
PHYCEIVER
RTL8201CP-LF
IC701
MNP
DM850E
I2S
S/PDIF
B
D-MOTHER ASSY
S/PDIF
DSD(SL)
PCM(C,SW,SL.SR,SBL,SBR)
DSD(FR,C,SW,SR)
XM
JA2601
IC2601
XM DT
BU9450KV
I2S
IC2403
ZONE2 XM/NET
SELECTOR
PCM(FL,FR)
DSD(FL)
IC2402
XM/AD
SELECTOR
IC2701
1st DSP
DSPA56720AG
COAX1(DVD)
JA2408
COAX2(CD)
(SC-05 MODEL)
COAX3(DVR2)
JA2401
(SC-07 MODEL)
IC2406,IC2409
S/PDIF
SELECTOR
IC2401
DIR&DIT
AK4114VQ
I2S
I2S
IC2404
DIR/HDMI
SELECTOR
IC2951
ADC
PCM1804DB
OPT IN1(TV/SAT)
JA2402
OPT IN2(DVR2)
JA2403
OPT IN3(VIDEO1)
JA2404
OPT IN4(CD-R)
JA2405
TX0
TX1
A/D BUFFER
IC2901
NJM4565MD
C
FRONT IN ASSY
VIDEO3
JA6202
VIDEO3
JA6202
MIC
JA6202
USB
JA6301
MIC Amp
IC6201
NJM4565MD
SW DownMix
IC5301, IC5302
D
232C & CONTROL ASSY
Sirius
JA5807
TUNER Module
IC5351
VIDEO3/MIC
SELECTOR
TC4053BFN
PHONO
JA5001
CD
JA5001
CD-R
JA5002
DVD
JA5004
TV/SAT
JA5004
VIDEO1
JA5005
VIDEO2
JA5005
DVR1
JA5006
DVR2
JA5007
IC5255
PHONO/MULTI CH
SELECTOR
TC4053BFN
MULTI IN L/R
JA5008
MULTI IN C/SW
JA5009
MULTI IN SL/SR
JA5010
MULTI IN SBL/SBR
JA5010


IC301
HDMI
TRANSMITTER
SII9134CTU
JA301 HDMI OUT1
(SC-07 MODEL)
IC252
BASIC AUDIO
SELECTOR
IC351
HDMI
TRANSMITTER
SII9134CTU
JA351 HDMI OUT2
NOTE
SPDIF:SONY/Philips Digital Interface
I2S:The Inter-IC Sound
(HIGH MODEL)
IC2801
2nd DSP
DSPC56371AF180
I2S
IC2803
DSP/2ch DIRECT
SELECTOR
SRC
SRC4190IDB
X4
IC3051(FL,FR)
IC3151(C,SW)
IC3251(SL,SR)
IC3351(SBL,SBR)
SC-05 MODEL
IC3052(FL,FR)
IC3152(C,SW)
IC3252(SL,SR)
IC3352(SBL,SBR)
DAC
WM8740SEDS
X4
IC3451
ZONE2 DAC
AK4387ET
2ch PCM Only
LPF
IC3001(FL,FR)
IC3101(C,SW)
IC3201(SL,SR)
IC3301(SBL,SBR)
LPF
IC3401
(ZONE2)
JA2406 ZONE3/ OPT OUT1
JA2407 OPT OUT2
A AUDIO ASSY
IC5221
ZONE2/ZONE3
E-VOL
BD3814FV
S ZOUT ASSY
<<AUDIO ZONE OUT>>
JA6401 ZONE2 OUT
JA6401 ZONE3 OUT
JA5002 CD-R REC
JA5006 DVR1 REC
JA5007 DVR2 REC
HEADPHONE
AMP
IC5401
NJM4565MD
C FRONT IN ASSY
JA6351 HP
IC5201
Selector/Volume
/PRE Amp
BD3473KS2
O ICE BUFFER
ASSY
IC6820,
IC6840
IC6800
IC6860,
IC6880
IC6900,
IC6920
<<POWER AMP
INPUT BUFFER>>
SW PRE Amp
IC5282
NJM4565MD
Q ICEPOWER AMP ASSY
<<POWER AMP>>
JA4101 SP L/R
JA4101 SP C
JA4301 SP SL/SR
JA4501 SP SBL/SBR
H COMPOSITE S ASSY
<<PREOUT>>
JA6502 PREOUT L/R
JA6502 PREOUT C
JA6502 PREOUT SW
JA6501 PREOUT SL/SR
JA6501 PREOUT SBL/SBR

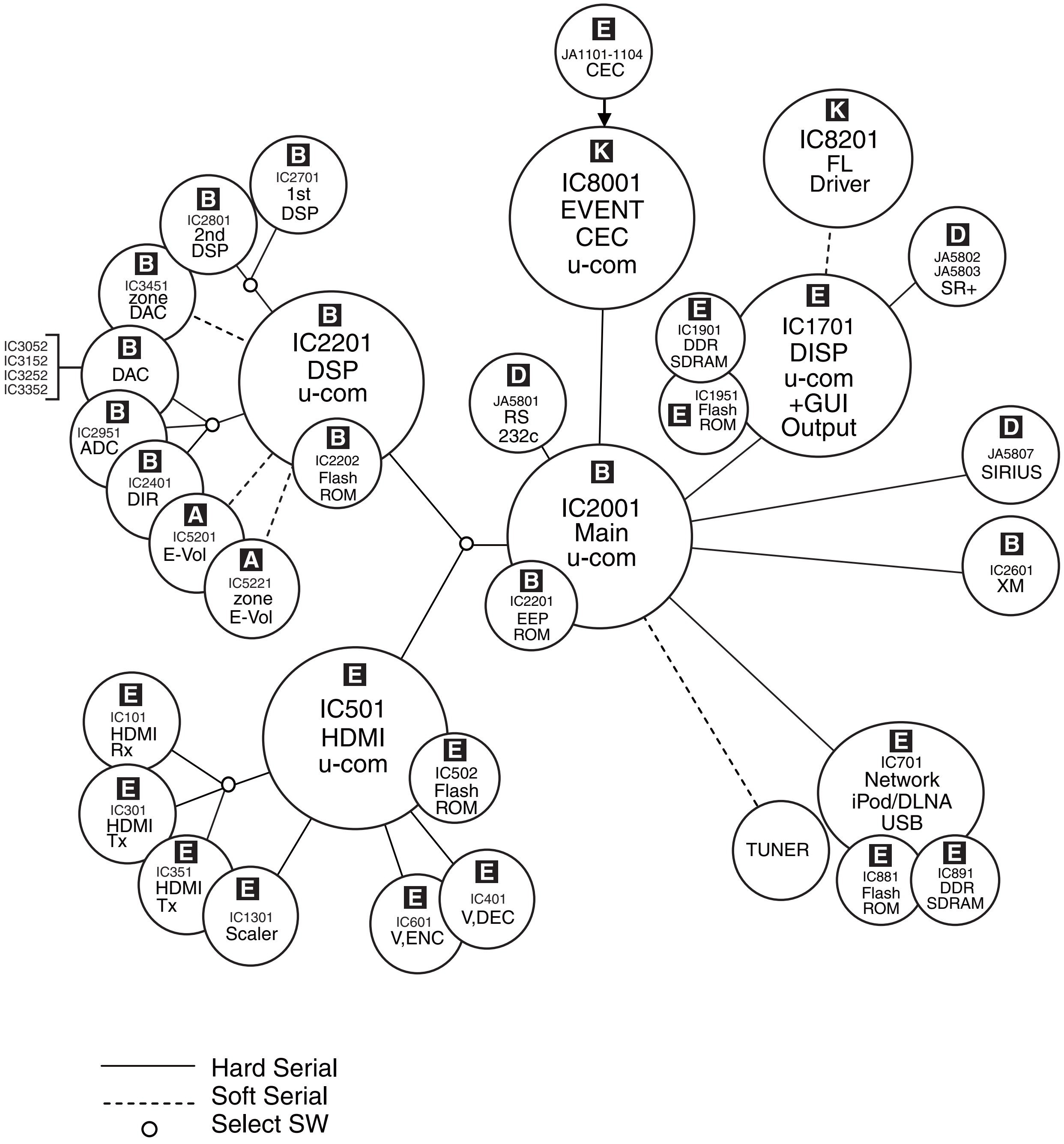
4.3 DSP BLOCK DIAGRAM


VOLUME CONTROL
CN2902
IC3451 ZONE2 DAC AK4387ET
IC3051(FL,FR) IC3151(C,SW) IC3251(SL,SR) IC3351(SBL,SBR) SC-07 MODEL ONLY SRC SRC4190IDB
IC3052(FL,FR) IC3152(C,SW) IC3252(SL,SR) IC3352(SBL,SBR) DAC WM8740SEDS
I2S
SPI
RST
SC-05 MODEL
IC2803 SELECTOR TC74LCX157FTS1
IC2805 BUFFER TC74LCX08FTS1
IC2202 FLASH ROM 4Mbit
16bit DATA BUS
18bit ADDRESS BUS
IC2802 FLASH ROM 1Mbit
I2C
IC2801 DSP2nd (PPP) FREESCALE DSPC56371AF180
I2S(2ch PCM)
IC2703 SDRAM 64Mbit
12bit ADDRESS BUS
16bit DATA BUS
8bit DATA BUS
21bit ADDRESS BUS
IC2702 FLASH ROM 16Mbit
IC2701 DSP1st (DECODER) FREESCALE DSP56720AG
IC2201 DSP μ-COM (128pin) PEG396A
IC2001 MAIN μ-COM PEG489B8
TX,RX
2ch PCM DIRECT
BASIC AUDIO
IC2403 SELECTOR TC74LCX157FTS1
IC2404 SELECTOR TC74LCX157FTS1
IC2601 XM BU9450KV
IC2402 SELECTOR TC74LCX157FTS1
FD
IC2951 ADC PCM1804DB
IC2401 DIR & DIT AK4114VQ
S/PDIF
CN2003
CN2402(2/2)
CN2008
RST(NET)
I2S(NET)
I2S(HDMI)
RST(HDMI)
E HDMI NETWORK ASSY
B D-MOTHER ASSY
CN2901
ANALOG IN
DIGITAL IN
DIGITAL OUT
CN2402 (1/2)

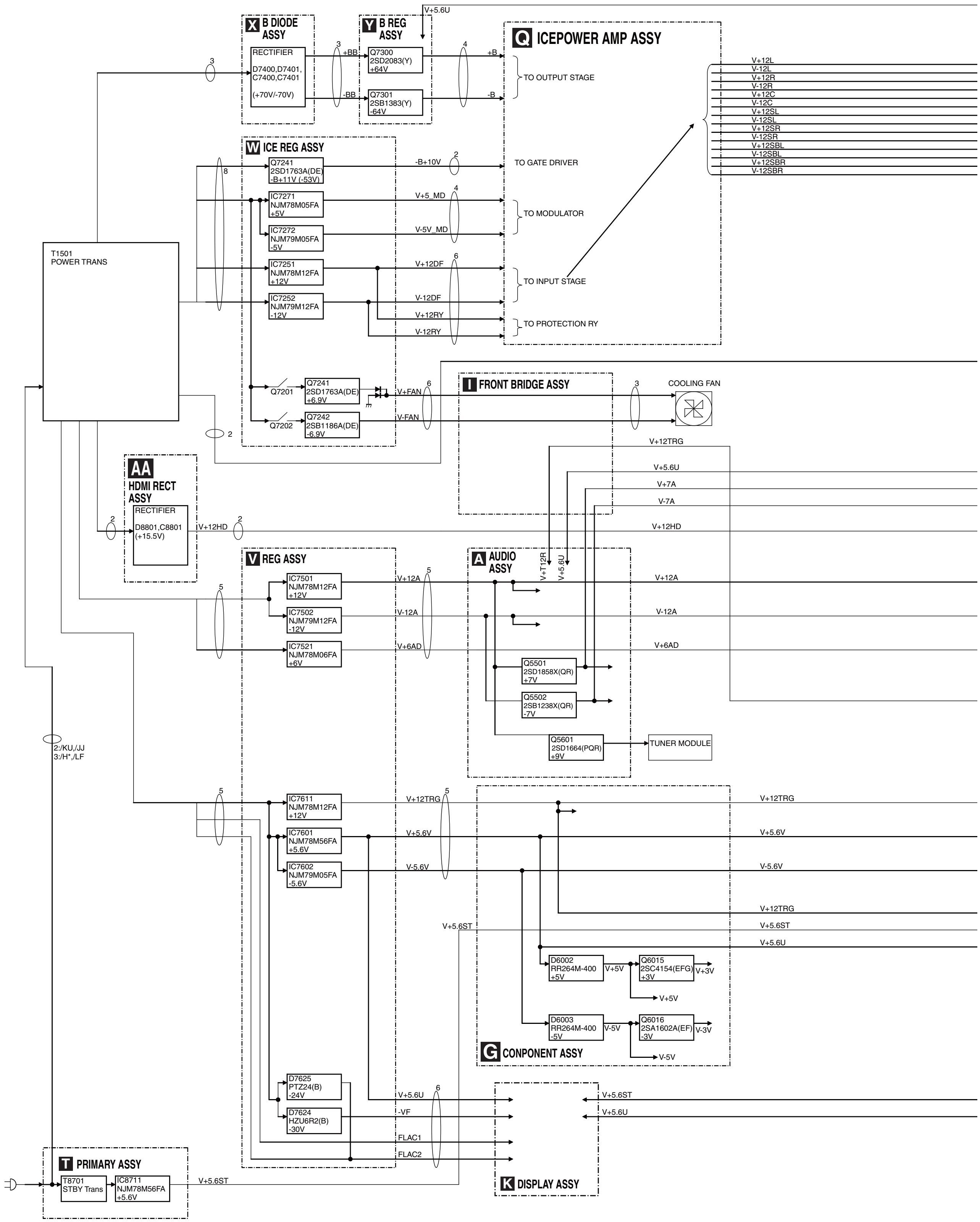
4.4 HDMI NETWORK BLOCK DIAGRAM

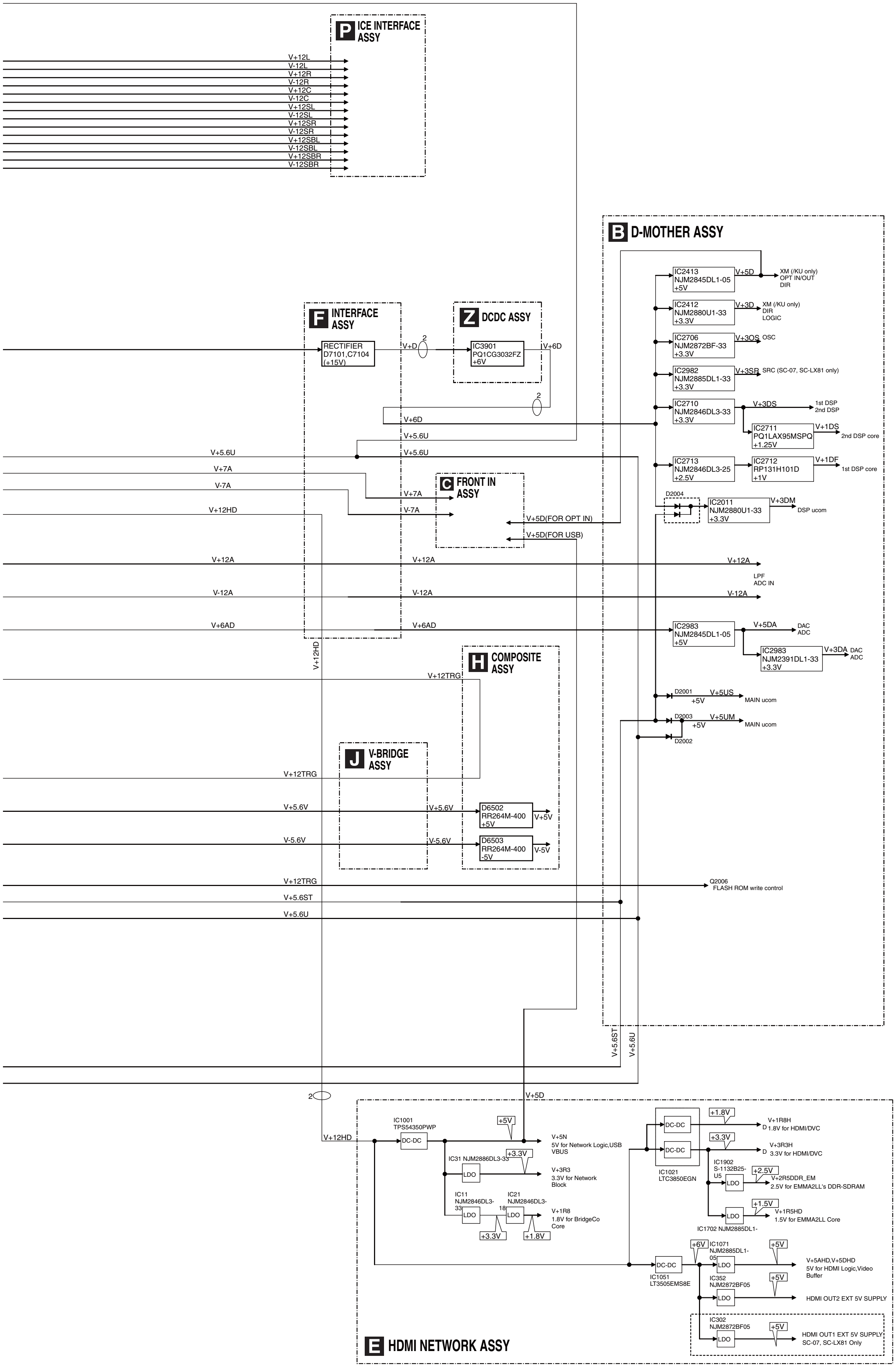

SC-07 only
JA301
HDMI OUT1
IC301
HDMI Tx
SiI9134CTU
JA351
HDMI OUT2
IC351
HDMI Tx
SiI9134CTU
IC601
Video Encoder
ADV7172KSTZ
Component
S
CVBS
IC1384
IC1383
IC1381
BusBufferx3
TC74VCX541FT
ITU-R BT656
IC401
Video Decoder
ADV7800BSTZ
Component
S
CVBS
IC1301
Video Scaler
FLI2310-LF-CF
IC251
TC74VHC157FTS1
I2S
I2S/DSD
SPDIF/DSD
BusBuffer
TC74VCX541FT
IC1404
IC1402
BusBuffer
TC74VCX541FT
HDMI/DVC Assy
Other circuit Block
IC101
HDMI Rx
SiI9135CTU
JPEG Slideshow
ITU-R BT656
GUI
ITU-R BT656
IC1701
GUI
µPD61111
"EMMA2LL"
Component
for SUB ROOM GUI
CVBS
IC1151
HDMI Switch
SiI9185ACTU
IC701
Network Cont
DM850E
SPDIF
I2S
USB
HDMI
IC861
PHY
RTL8201CP
IC791
iPOD IC
341S2154
JA1104
JA1103
JA1102
JA1101
IN3
IN2
IN1
BD IN
Ethernet
JA701
TMDS
Video BUS
Analog Video
AUDIO

4.5 MICROCOMPUTER BLOCK DIAGRAM


E
JA1101-1104
CEC
K
IC8001
EVENT
CEC
u-com
K
IC8201
FL
Driver
D
JA5802
JA5803
SR+
E
IC1701
DISP
u-com
+GUI
Output
E
IC1901
DDR
SDRAM
E
IC1951
Flash
ROM
D
JA5801
RS
232c
D
JA5807
SIRIUS
B
IC2601
XM
B
IC2001
Main
u-com
B
IC2201
EEP
ROM
B
IC2701
1st
DSP
B
IC2801
2nd
DSP
B
IC3451
zone
DAC
IC3052
IC3152
IC3252
IC3352
B
DAC
B
IC2951
ADC
B
IC2401
DIR
A
IC5201
E-Vol
A
IC5221
zone
E-Vol
B
IC2201
DSP
u-com
B
IC2202
Flash
ROM
E
IC501
HDMI
u-com
E
IC502
Flash
ROM
E
IC101
HDMI
Rx
E
IC301
HDMI
Tx
E
IC351
HDMI
Tx
E
IC1301
Scaler
E
IC601
V,ENC
E
IC401
V,DEC
TUNER
E
IC701
Network
iPod/DLNA
USB
E
IC881
Flash
ROM
E
IC891
DDR
SDRAM
Hard Serial
Soft Serial
Select SW

4.6 POWER BLOCK DIAGRAM

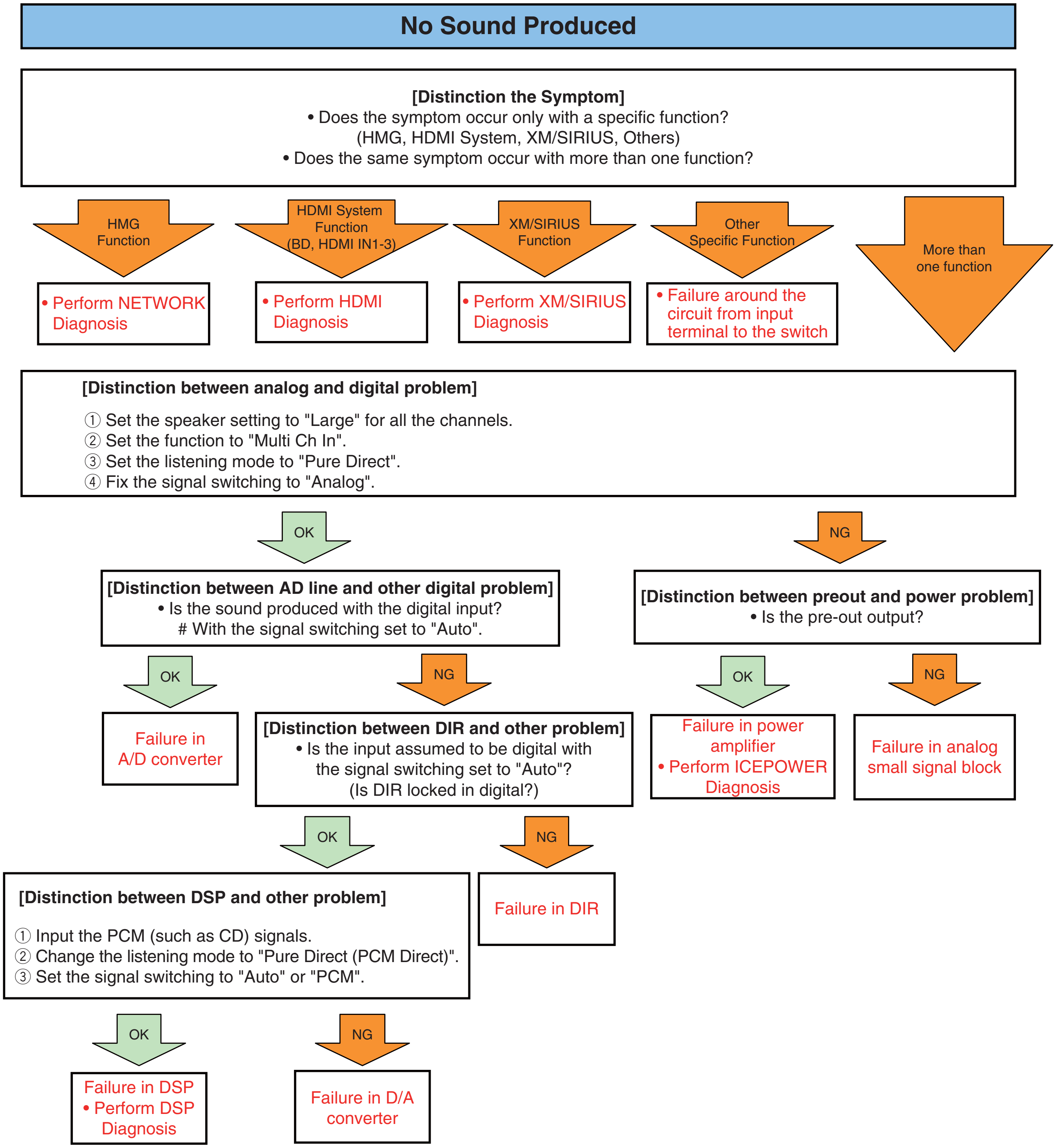

A
B
C
D
E
F
V+5.6U
X B DIODE ASSY
RECTIFIER
D7400,D7401,
C7400,C7401
(+70V/-70V)
3
+BB
-BB
Y B REG ASSY
Q7300
2SD2083(Y)
+64V
Q7301
2SB1383(Y)
-64V
4
+B
-B
Q ICEPOWER AMP ASSY
TO OUTPUT STAGE
V+12L
V-12L
V+12R
V-12R
V+12C
V-12C
V+12SL
V-12SL
V+12SR
V-12SR
V+12SBL
V-12SBL
V+12SBR
V-12SBR
W ICE REG ASSY
8
Q7241
2SD1763A(DE)
-B+11V (-53V)
-B+10V
2
TO GATE DRIVER
IC7271
NJM78M05FA
+5V
V+5_MD
4
IC7272
NJM79M05FA
-5V
V-5V_MD
TO MODULATOR
IC7251
NJM78M12FA
+12V
V+12DF
6
IC7252
NJM79M12FA
-12V
V-12DF
V+12RY
V-12RY
TO INPUT STAGE
TO PROTECTION RY
T1501
POWER TRANS
Q7201
Q7241
2SD1763A(DE)
+6.9V
V+FAN
6
Q7202
Q7242
2SB1186A(DE)
-6.9V
V-FAN
2
I FRONT BRIDGE ASSY
3
COOLING FAN
V+12TRG
V+5.6U
V+7A
V-7A
AA HDMI RECT ASSY
RECTIFIER
D8801,C8801
(+15.5V)
2
V+12HD
2
V+12HD
V REG ASSY
5
IC7501
NJM78M12FA
+12V
V+12A
5
IC7502
NJM79M12FA
-12V
V-12A
IC7521
NJM78M06FA
+6V
V+6AD
A AUDIO ASSY
V+T12R
V+5.6U
V+12A
V-12A
V+6AD
Q5501
2SD1858X(QR)
+7V
Q5502
2SB1238X(QR)
-7V
Q5601
2SD1664(PQR)
+9V
TUNER MODULE
2:/KU,/JJ
3:/H*,/LF
5
IC7611
NJM78M12FA
+12V
V+12TRG
5
IC7601
NJM78M56FA
+5.6V
V+5.6V
IC7602
NJM79M05FA
-5.6V
V-5.6V
V+12TRG
V+5.6V
V-5.6V
V+12TRG
V+5.6ST
V+5.6ST
V+5.6U
D6002
RR264M-400
+5V
V+5V
Q6015
2SC4154(EFG)
+3V
V+3V
V+5V
D6003
RR264M-400
-5V
V-5V
Q6016
2SA1602A(EF)
-3V
V-3V
V-5V
G CONPONENT ASSY
D7625
PTZ24(B)
-24V
V+5.6U
6
D7624
HZU6R2(B)
-30V
-VF
FLAC1
FLAC2
V+5.6ST
V+5.6U
K DISPLAY ASSY
T PRIMARY ASSY
T8701
STBY Trans
IC8711
NJM78M56FA
+5.6V
V+5.6ST


P ICE INTERFACE ASSY
V+12L
V-12L
V+12R
V-12R
V+12C
V-12C
V+12SL
V-12SL
V+12SR
V-12SR
V+12SBL
V-12SBL
V+12SBR
V-12SBR
B D-MOTHER ASSY
IC2413 NJM2845DL1-05 +5V
V+5D
XM (/KU only) OPT IN/OUT DIR
IC2412 NJM2880U1-33 +3.3V
V+3D
XM (/KU only) DIR LOGIC
IC2706 NJM2872BF-33 +3.3V
V+3OS
OSC
IC2982 NJM2885DL1-33 +3.3V
V+3SR
SRC (SC-07, SC-LX81 only)
IC2710 NJM2846DL3-33 +3.3V
V+3DS
1st DSP 2nd DSP
IC2711 PQ1LAX95MSPQ +1.25V
V+1DS
2nd DSP core
IC2713 NJM2846DL3-25 +2.5V
IC2712 RP131H101D +1V
V+1DF
1st DSP core
D2004
IC2011 NJM2880U1-33 +3.3V
V+3DM
DSP ucom
F INTERFACE ASSY
RECTIFIER D7101,C7104 (+15V)
V+D
2
Z DCDC ASSY
IC3901 PQ1CG3032FZ +6V
V+6D
2
V+6D
V+5.6U
V+5.6U
V+5.6U
V+7A
V+7A
V-7A
V-7A
C FRONT IN ASSY
V+12HD
V+5D(FOR OPT IN)
V+5D(FOR USB)
V+12A
V+12A
V+12A
LPF ADC IN
V-12A
V-12A
V-12A
V+6AD
V+6AD
IC2983 NJM2845DL1-05 +5V
V+5DA
DAC ADC
IC2983 NJM2391DL1-33 +3.3V
V+3DA
DAC ADC
V+12HD
H COMPOSITE ASSY
V+12TRG
D2001
+5V
V+5US
MAIN ucom
D2003
+5V
V+5UM
MAIN ucom
D2002
J V-BRIDGE ASSY
V+12TRG
V+5.6V
V+5.6V
D6502 RR264M-400 +5V
V+5V
V-5.6V
V-5.6V
D6503 RR264M-400 -5V
V-5V
V+12TRG
Q2006 FLASH ROM write control
V+5.6ST
V+5.6U
V+5.6ST
V+5.6U
2
V+5D
V+12HD
IC1001 TPS54350PWP
DC-DC
+5V
V+5N 5V for Network Logic,USB VBUS
IC31 NJM2886DL3-33
+3.3V
LDO
V+3R3 3.3V for Network Block
IC11 NJM2846DL3-33
IC21 NJM2846DL3-18
LDO
LDO
+3.3V
+1.8V
V+1R8 1.8V for BridgeCo Core
DC-DC
DC-DC
+1.8V
V+1R8H
D 1.8V for HDMI/DVC
+3.3V
V+3R3H
D 3.3V for HDMI/DVC
IC1021 LTC3850EGN
IC1902 S-1132B25-U5
LDO
+2.5V
V+2R5DDR_EM 2.5V for EMMA2LL's DDR-SDRAM
LDO
+1.5V
V+1R5HD 1.5V for EMMA2LL Core
IC1702 NJM2885DL1-
DC-DC
IC1051 LT3505EMS8E
+6V
IC1071 NJM2885DL1-05
LDO
+5V
V+5AHD,V+5DHD 5V for HDMI Logic,Video Buffer
IC352 NJM2872BF05
LDO
+5V
HDMI OUT2 EXT 5V SUPPLY
IC302 NJM2872BF05
LDO
+5V
HDMI OUT1 EXT 5V SUPPLY SC-07, SC-LX81 Only
E HDMI NETWORK ASSY

5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

[1] Audio Section Troubleshooting



No Sound Produced

[Distinction the Symptom]
- Does the symptom occur only with a specific function? (HMG, HDMI System, XM/SIRIUS, Others)
- Does the same symptom occur with more than one function?

HMG Function
- Perform NETWORK Diagnosis

HDMI System Function (BD, HDMI IN1-3)
- Perform HDMI Diagnosis

XM/SIRIUS Function
- Perform XM/SIRIUS Diagnosis

Other Specific Function
- Failure around the circuit from input terminal to the switch

More than one function

[Distinction between analog and digital problem]

① Set the speaker setting to "Large" for all the channels.
② Set the function to "Multi Ch In".
③ Set the listening mode to "Pure Direct".
④ Fix the signal switching to "Analog".

OK

[Distinction between AD line and other digital problem]
- Is the sound produced with the digital input?

# With the signal switching set to "Auto".

OK

Failure in A/D converter

NG

[Distinction between DIR and other problem]
- Is the input assumed to be digital with the signal switching set to "Auto"? (Is DIR locked in digital?)

OK

[Distinction between DSP and other problem]

① Input the PCM (such as CD) signals.
② Change the listening mode to "Pure Direct (PCM Direct)".
③ Set the signal switching to "Auto" or "PCM".

OK

Failure in DSP
- Perform DSP Diagnosis

NG

Failure in D/A converter

NG

Failure in DIR

NG

[Distinction between preout and power problem]
- Is the pre-out output?

OK

Failure in power amplifier
- Perform ICEPOWER Diagnosis

NG

Failure in analog small signal block

[2] DSP Troubleshooting

1) Simplified diagnosis

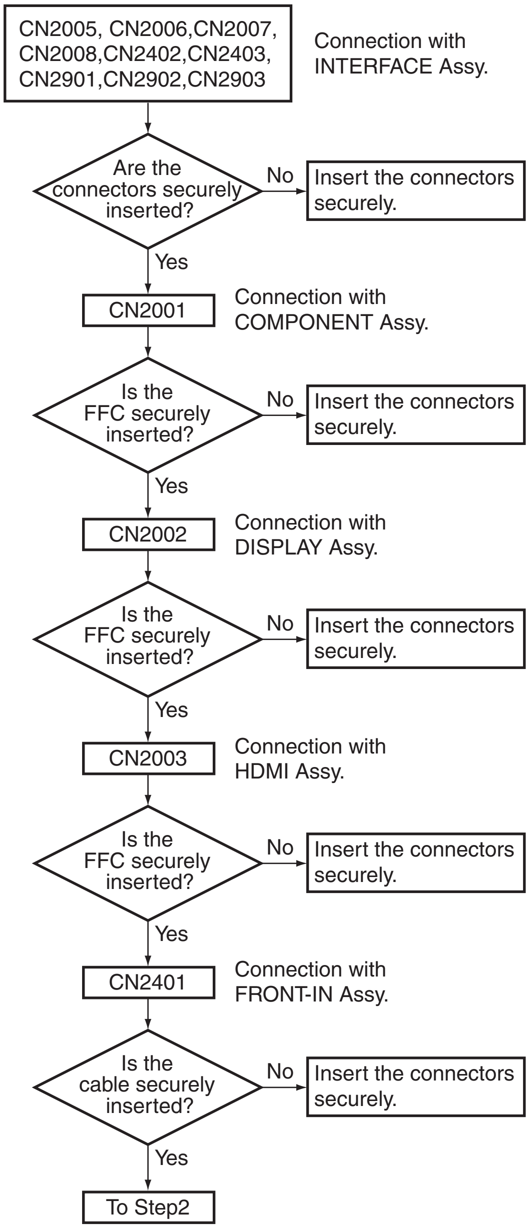
DSP block malfunction is detected.
(The part can be roughly expected just by operation of the main unit.)

- Has DSP block caused the malfunction?
  Inputing a 2ch PCM (such as CD) digital signal, check if the sound plays by switching AUTO SURR / STREAM DIRECT. When the sound doesn't play in AUTO SURROUND or DIRECT MODE though it does in PURE DIRECT (PCM DIRECT) MODE, DSP block might be defective.

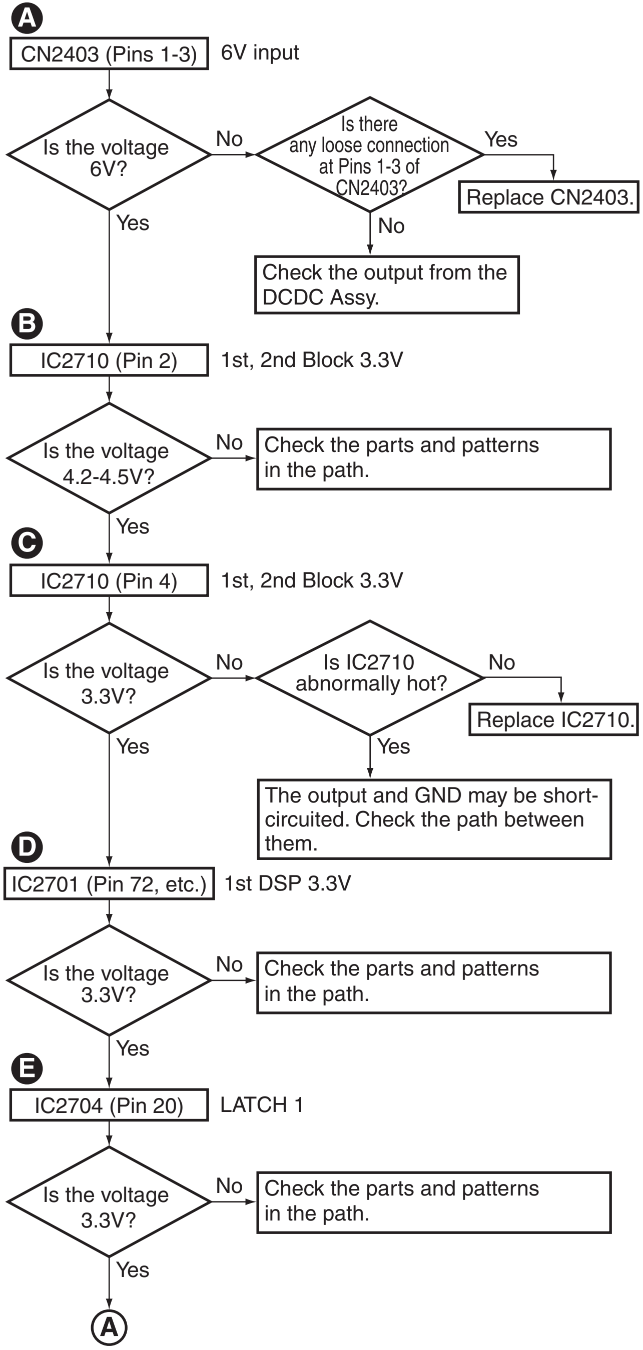
2) Troubleshooting

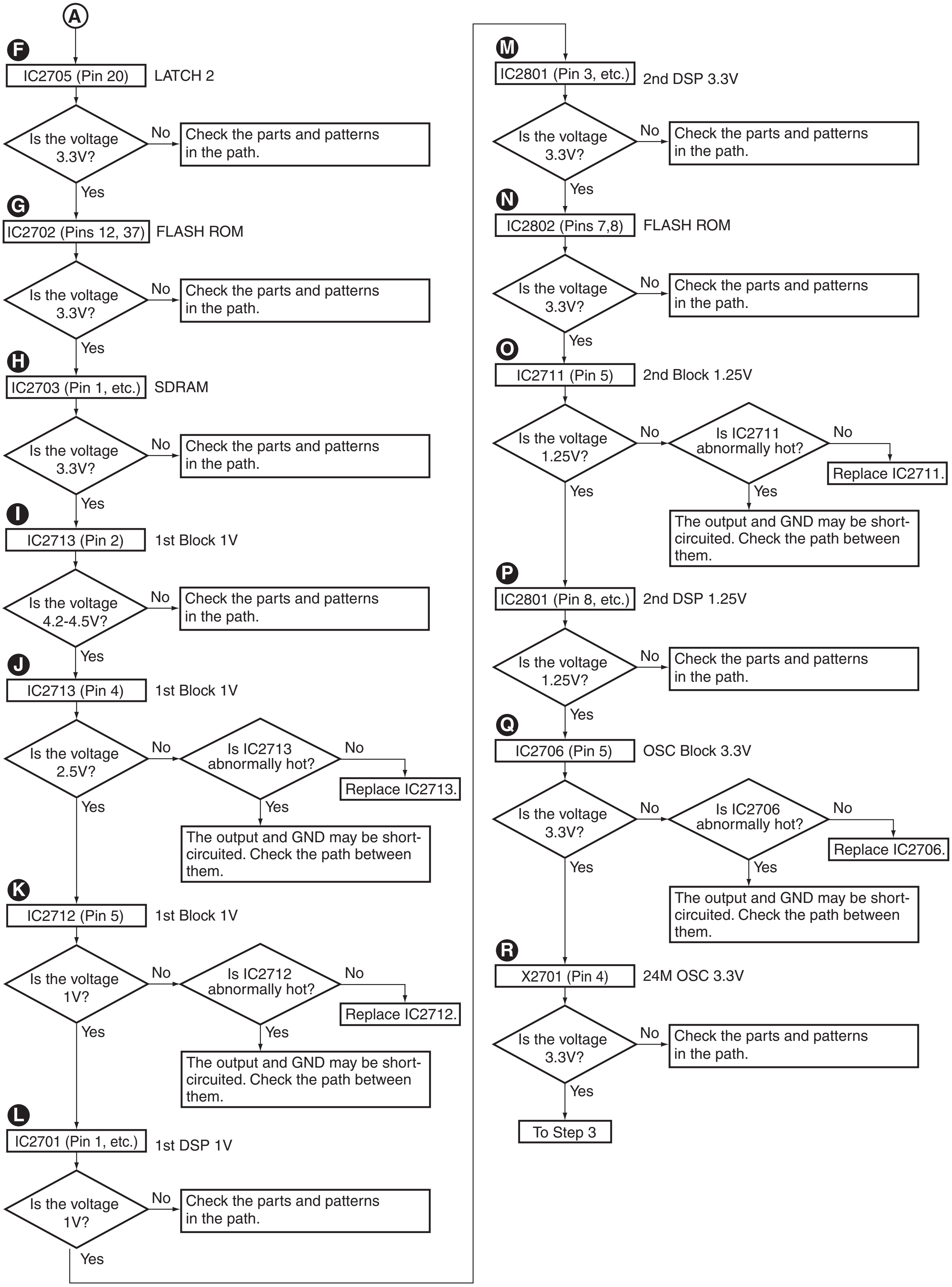
- It is assumed that there is no loose connection or damage in the LCRs.
- Refer to "DIGITAL MOTHER Assy Check Points (DSP Section)" as the parts marked Ⓐ to ⒶⓎ in the troubleshooting are located.

Step 1: Connections

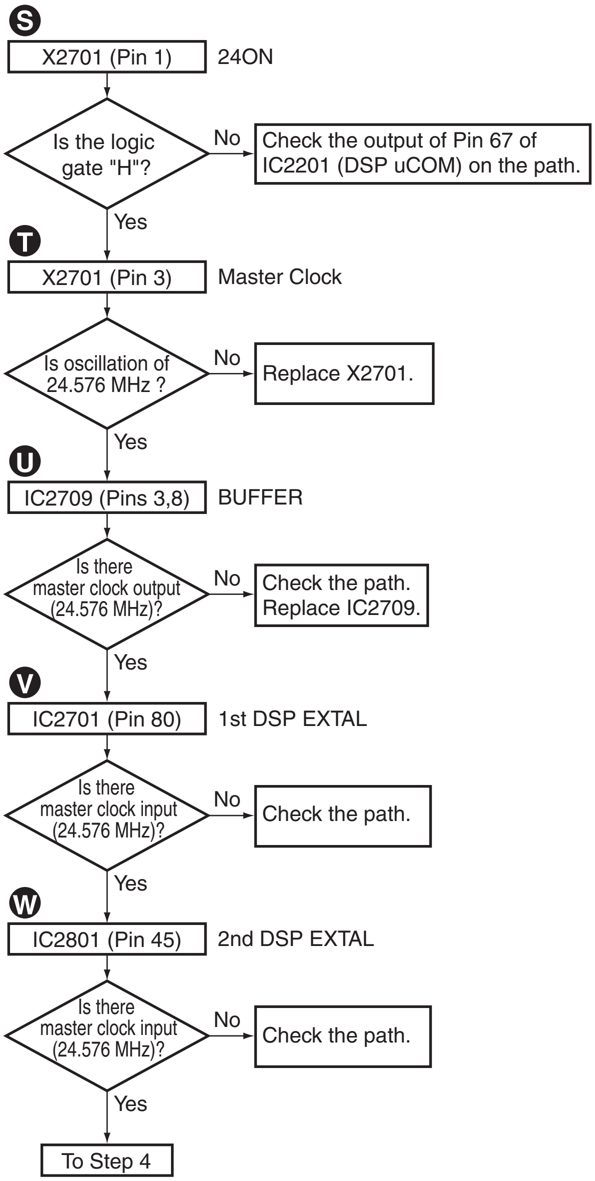

CN2005, CN2006,CN2007, CN2008,CN2402,CN2403, CN2901,CN2902,CN2903
Connection with INTERFACE Assy.
Are the connectors securely inserted?
No
Insert the connectors securely.
Yes
CN2001
Connection with COMPONENT Assy.
Is the FFC securely inserted?
No
Insert the connectors securely.
Yes
CN2002
Connection with DISPLAY Assy.
Is the FFC securely inserted?
No
Insert the connectors securely.
Yes
CN2003
Connection with HDMI Assy.
Is the FFC securely inserted?
No
Insert the connectors securely.
Yes
CN2401
Connection with FRONT-IN Assy.
Is the cable securely inserted?
No
Insert the connectors securely.
Yes
To Step2

Step 2: Power supply

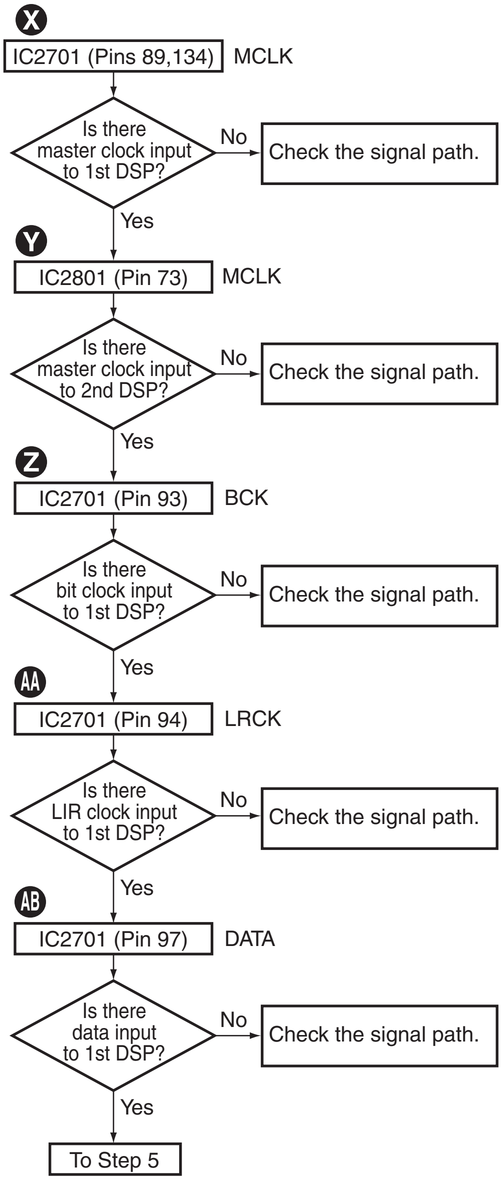

A
CN2403 (Pins 1-3)
6V input
Is the voltage 6V?
No
Is there any loose connection at Pins 1-3 of CN2403?
Yes
Replace CN2403.
No
Check the output from the DCDC Assy.
Yes
B
IC2710 (Pin 2)
1st, 2nd Block 3.3V
Is the voltage 4.2-4.5V?
No
Check the parts and patterns in the path.
Yes
C
IC2710 (Pin 4)
1st, 2nd Block 3.3V
Is the voltage 3.3V?
No
Is IC2710 abnormally hot?
No
Replace IC2710.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
D
IC2701 (Pin 72, etc.)
1st DSP 3.3V
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
E
IC2704 (Pin 20)
LATCH 1
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
A


A
F
IC2705 (Pin 20)
LATCH 2
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
G
IC2702 (Pins 12, 37)
FLASH ROM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
H
IC2703 (Pin 1, etc.)
SDRAM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
I
IC2713 (Pin 2)
1st Block 1V
Is the voltage 4.2-4.5V?
No
Check the parts and patterns in the path.
Yes
J
IC2713 (Pin 4)
1st Block 1V
Is the voltage 2.5V?
No
Is IC2713 abnormally hot?
No
Replace IC2713.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
K
IC2712 (Pin 5)
1st Block 1V
Is the voltage 1V?
No
Is IC2712 abnormally hot?
No
Replace IC2712.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
L
IC2701 (Pin 1, etc.)
1st DSP 1V
Is the voltage 1V?
No
Check the parts and patterns in the path.
Yes
M
IC2801 (Pin 3, etc.)
2nd DSP 3.3V
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
N
IC2802 (Pins 7,8)
FLASH ROM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
O
IC2711 (Pin 5)
2nd Block 1.25V
Is the voltage 1.25V?
No
Is IC2711 abnormally hot?
No
Replace IC2711.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
P
IC2801 (Pin 8, etc.)
2nd DSP 1.25V
Is the voltage 1.25V?
No
Check the parts and patterns in the path.
Yes
Q
IC2706 (Pin 5)
OSC Block 3.3V
Is the voltage 3.3V?
No
Is IC2706 abnormally hot?
No
Replace IC2706.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
R
X2701 (Pin 4)
24M OSC 3.3V
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
To Step 3

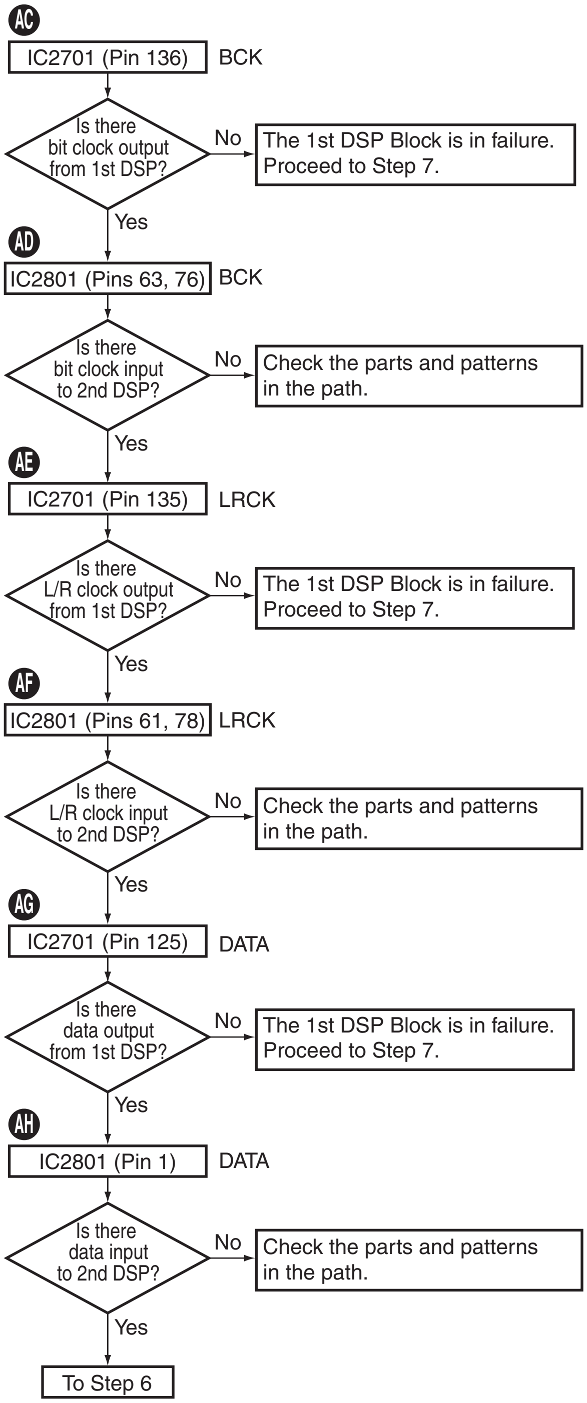
Step 3: Master Clock


S
X2701 (Pin 1)
24ON
Is the logic gate "H"?
No
Check the output of Pin 67 of IC2201 (DSP uCOM) on the path.
Yes
T
X2701 (Pin 3)
Master Clock
Is oscillation of 24.576 MHz ?
No
Replace X2701.
Yes
U
IC2709 (Pins 3,8)
BUFFER
Is there master clock output (24.576 MHz)?
No
Check the path. Replace IC2709.
Yes
V
IC2701 (Pin 80)
1st DSP EXTAL
Is there master clock input (24.576 MHz)?
No
Check the path.
Yes
W
IC2801 (Pin 45)
2nd DSP EXTAL
Is there master clock input (24.576 MHz)?
No
Check the path.
Yes
To Step 4

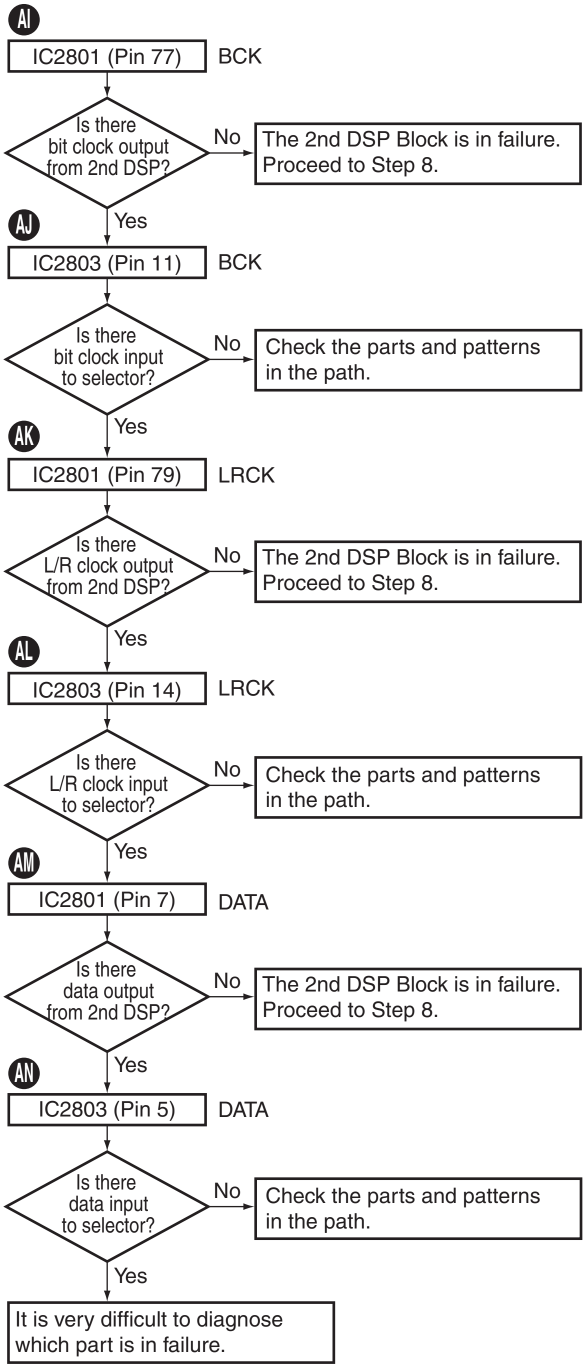
Step 4: Audio Signal


X
IC2701 (Pins 89,134)
MCLK
Is there master clock input to 1st DSP?
No
Check the signal path.
Yes
Y
IC2801 (Pin 73)
MCLK
Is there master clock input to 2nd DSP?
No
Check the signal path.
Yes
Z
IC2701 (Pin 93)
BCK
Is there bit clock input to 1st DSP?
No
Check the signal path.
Yes
AA
IC2701 (Pin 94)
LRCK
Is there LIR clock input to 1st DSP?
No
Check the signal path.
Yes
AB
IC2701 (Pin 97)
DATA
Is there data input to 1st DSP?
No
Check the signal path.
Yes
To Step 5

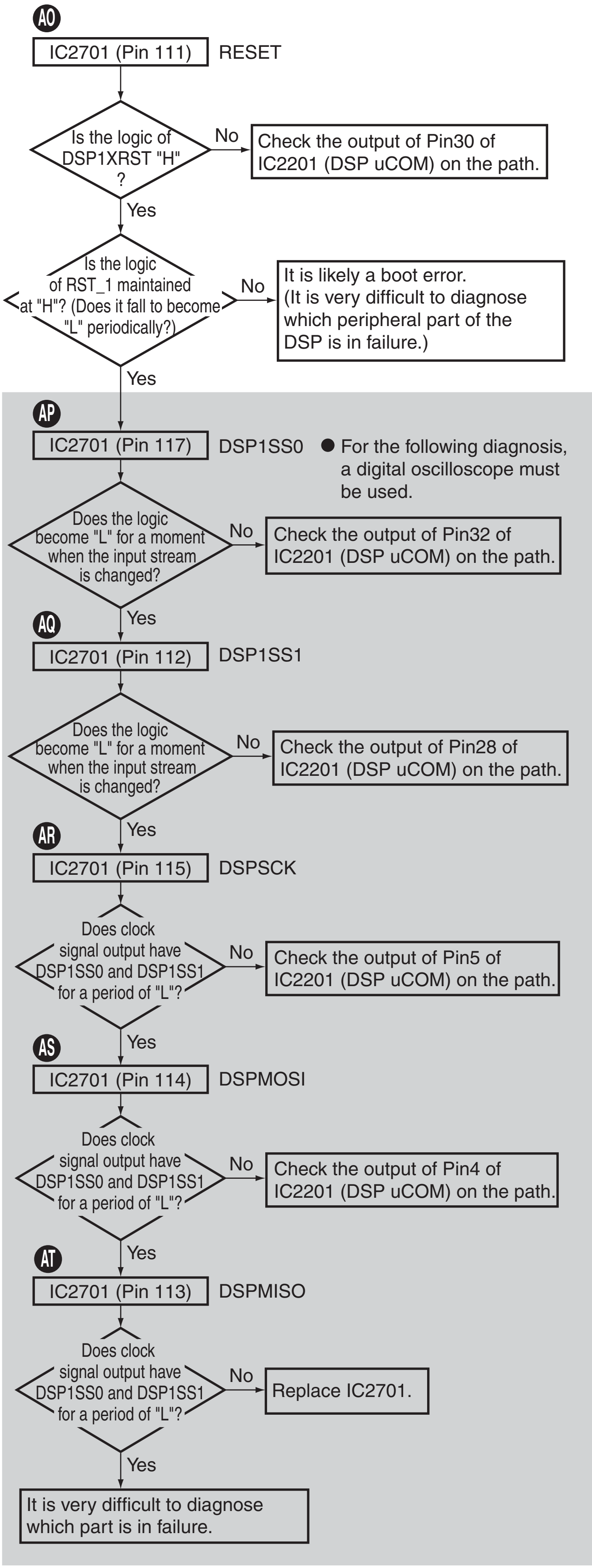
Step 5: Audio Signal


AC
IC2701 (Pin 136)
BCK
Is there bit clock output from 1st DSP?
No
The 1st DSP Block is in failure. Proceed to Step 7.
Yes
AD
IC2801 (Pins 63, 76)
BCK
Is there bit clock input to 2nd DSP?
No
Check the parts and patterns in the path.
Yes
AE
IC2701 (Pin 135)
LRCK
Is there L/R clock output from 1st DSP?
No
The 1st DSP Block is in failure. Proceed to Step 7.
Yes
AF
IC2801 (Pins 61, 78)
LRCK
Is there L/R clock input to 2nd DSP?
No
Check the parts and patterns in the path.
Yes
AG
IC2701 (Pin 125)
DATA
Is there data output from 1st DSP?
No
The 1st DSP Block is in failure. Proceed to Step 7.
Yes
AH
IC2801 (Pin 1)
DATA
Is there data input to 2nd DSP?
No
Check the parts and patterns in the path.
Yes
To Step 6

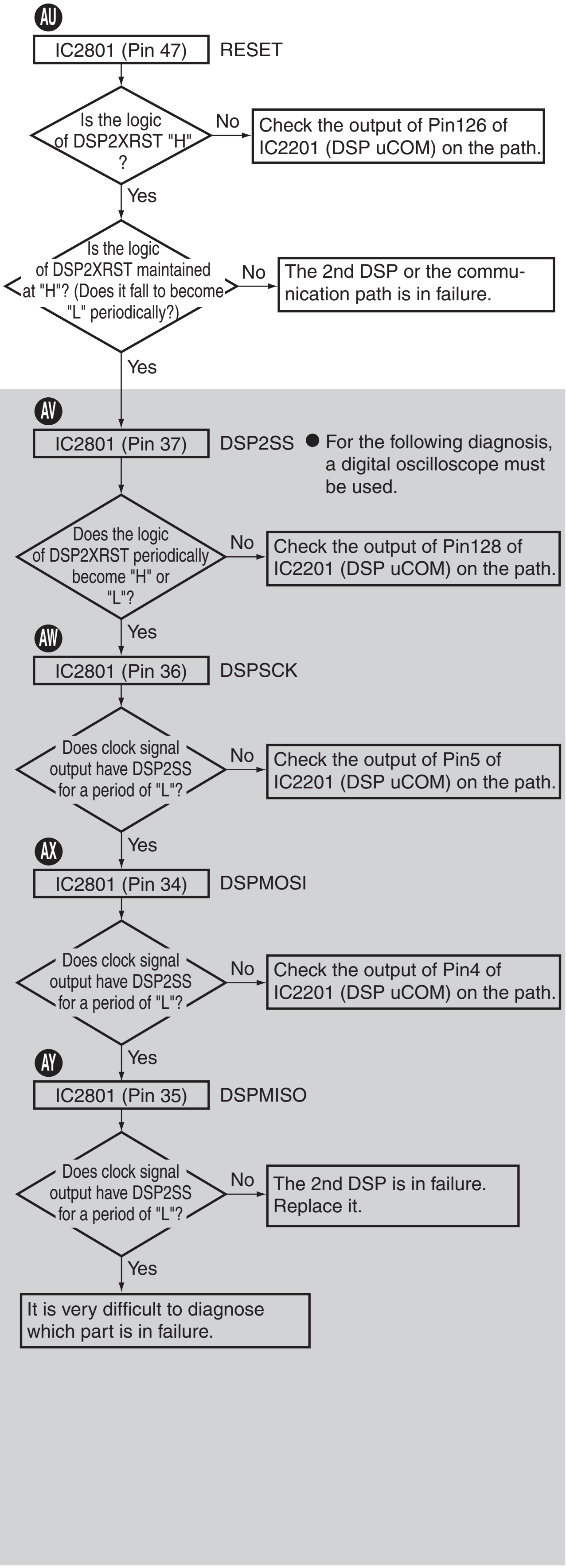
Step 6: Audio Signal


AI
IC2801 (Pin 77)
BCK
Is there bit clock output from 2nd DSP?
No
The 2nd DSP Block is in failure. Proceed to Step 8.
Yes
AJ
IC2803 (Pin 11)
BCK
Is there bit clock input to selector?
No
Check the parts and patterns in the path.
Yes
AK
IC2801 (Pin 79)
LRCK
Is there L/R clock output from 2nd DSP?
No
The 2nd DSP Block is in failure. Proceed to Step 8.
Yes
AL
IC2803 (Pin 14)
LRCK
Is there L/R clock input to selector?
No
Check the parts and patterns in the path.
Yes
AM
IC2801 (Pin 7)
DATA
Is there data output from 2nd DSP?
No
The 2nd DSP Block is in failure. Proceed to Step 8.
Yes
AN
IC2803 (Pin 5)
DATA
Is there data input to selector?
No
Check the parts and patterns in the path.
Yes
It is very difficult to diagnose which part is in failure.

Step 7: 1st DSP

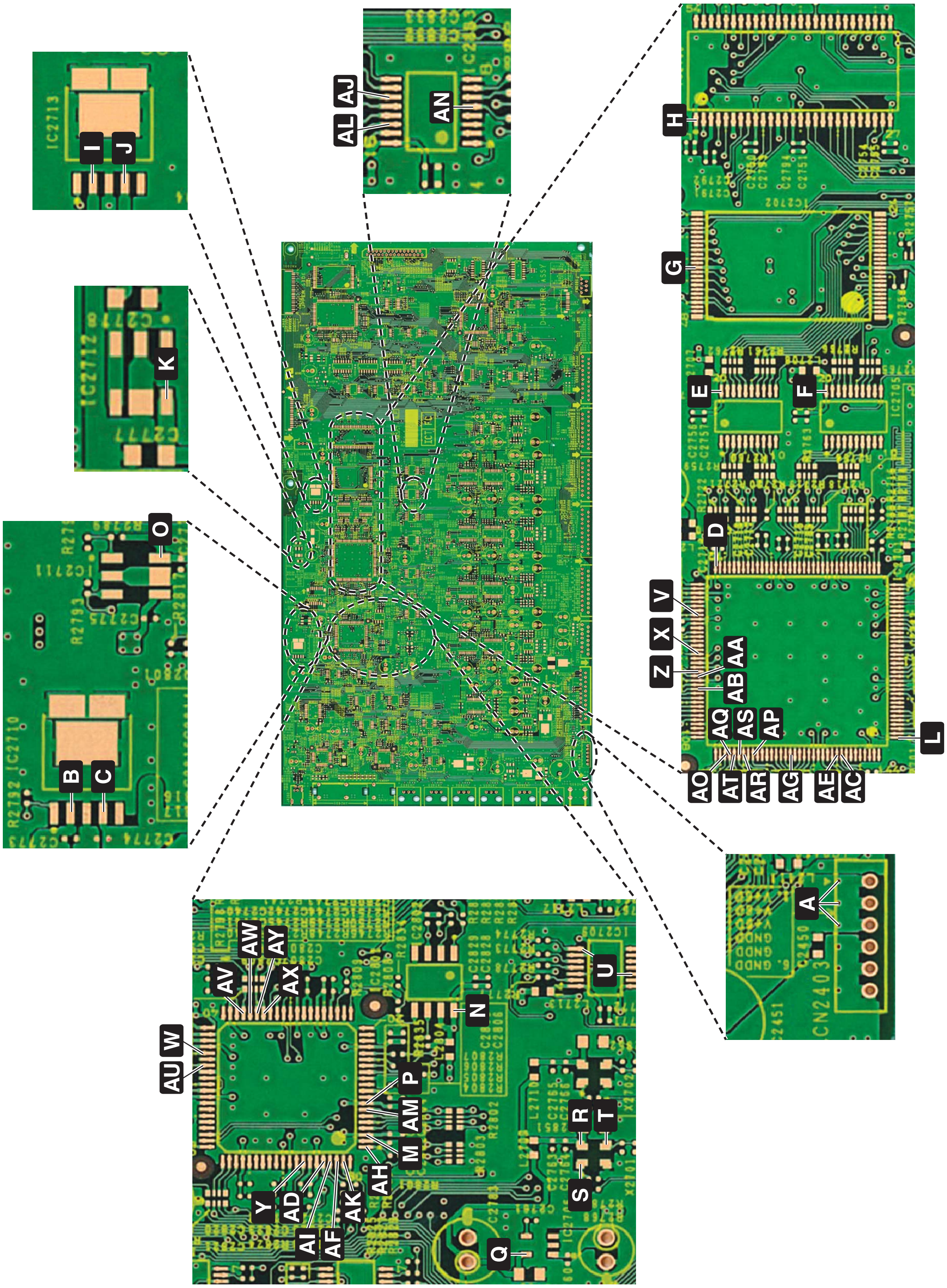

AO
IC2701 (Pin 111)
RESET
Is the logic of DSP1XRST "H" ?
No
Check the output of Pin30 of IC2201 (DSP uCOM) on the path.
Yes
Is the logic of RST_1 maintained at "H"? (Does it fall to become "L" periodically?)
No
It is likely a boot error. (It is very difficult to diagnose which peripheral part of the DSP is in failure.)
Yes
AP
IC2701 (Pin 117)
DSP1SS0
● For the following diagnosis, a digital oscilloscope must be used.
Does the logic become "L" for a moment when the input stream is changed?
No
Check the output of Pin32 of IC2201 (DSP uCOM) on the path.
Yes
AQ
IC2701 (Pin 112)
DSP1SS1
Does the logic become "L" for a moment when the input stream is changed?
No
Check the output of Pin28 of IC2201 (DSP uCOM) on the path.
Yes
AR
IC2701 (Pin 115)
DSPSCK
Does clock signal output have DSP1SS0 and DSP1SS1 for a period of "L"?
No
Check the output of Pin5 of IC2201 (DSP uCOM) on the path.
Yes
AS
IC2701 (Pin 114)
DSPMOSI
Does clock signal output have DSP1SS0 and DSP1SS1 for a period of "L"?
No
Check the output of Pin4 of IC2201 (DSP uCOM) on the path.
Yes
AT
IC2701 (Pin 113)
DSPMISO
Does clock signal output have DSP1SS0 and DSP1SS1 for a period of "L"?
No
Replace IC2701.
Yes
It is very difficult to diagnose which part is in failure.

Step 8: 2nd DSP


AU
IC2801 (Pin 47)
RESET
Is the logic of DSP2XRST "H" ?
No
Check the output of Pin126 of IC2201 (DSP uCOM) on the path.
Yes
Is the logic of DSP2XRST maintained at "H"? (Does it fall to become "L" periodically?)
No
The 2nd DSP or the communication path is in failure.
Yes
AV
IC2801 (Pin 37)
DSP2SS
● For the following diagnosis, a digital oscilloscope must be used.
Does the logic of DSP2XRST periodically become "H" or "L"?
No
Check the output of Pin128 of IC2201 (DSP uCOM) on the path.
Yes
AW
IC2801 (Pin 36)
DSPSCK
Does clock signal output have DSP2SS for a period of "L"?
No
Check the output of Pin5 of IC2201 (DSP uCOM) on the path.
Yes
AX
IC2801 (Pin 34)
DSPMOSI
Does clock signal output have DSP2SS for a period of "L"?
No
Check the output of Pin4 of IC2201 (DSP uCOM) on the path.
Yes
AY
IC2801 (Pin 35)
DSPMISO
Does clock signal output have DSP2SS for a period of "L"?
No
The 2nd DSP is in failure. Replace it.
Yes
It is very difficult to diagnose which part is in failure.

3) D-MOTHER Assy check points (DSP section)

B D-MOTHER ASSY SIDE A


I
J
K
O
B
C
AJ
AL
AN
H
G
E
F
D
V
X
Z
AA
AB
AQ
AS
AP
L
AO
AT
AR
AG
AE
AC
A
AW
AY
AV
AX
W
AU
U
N
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AM
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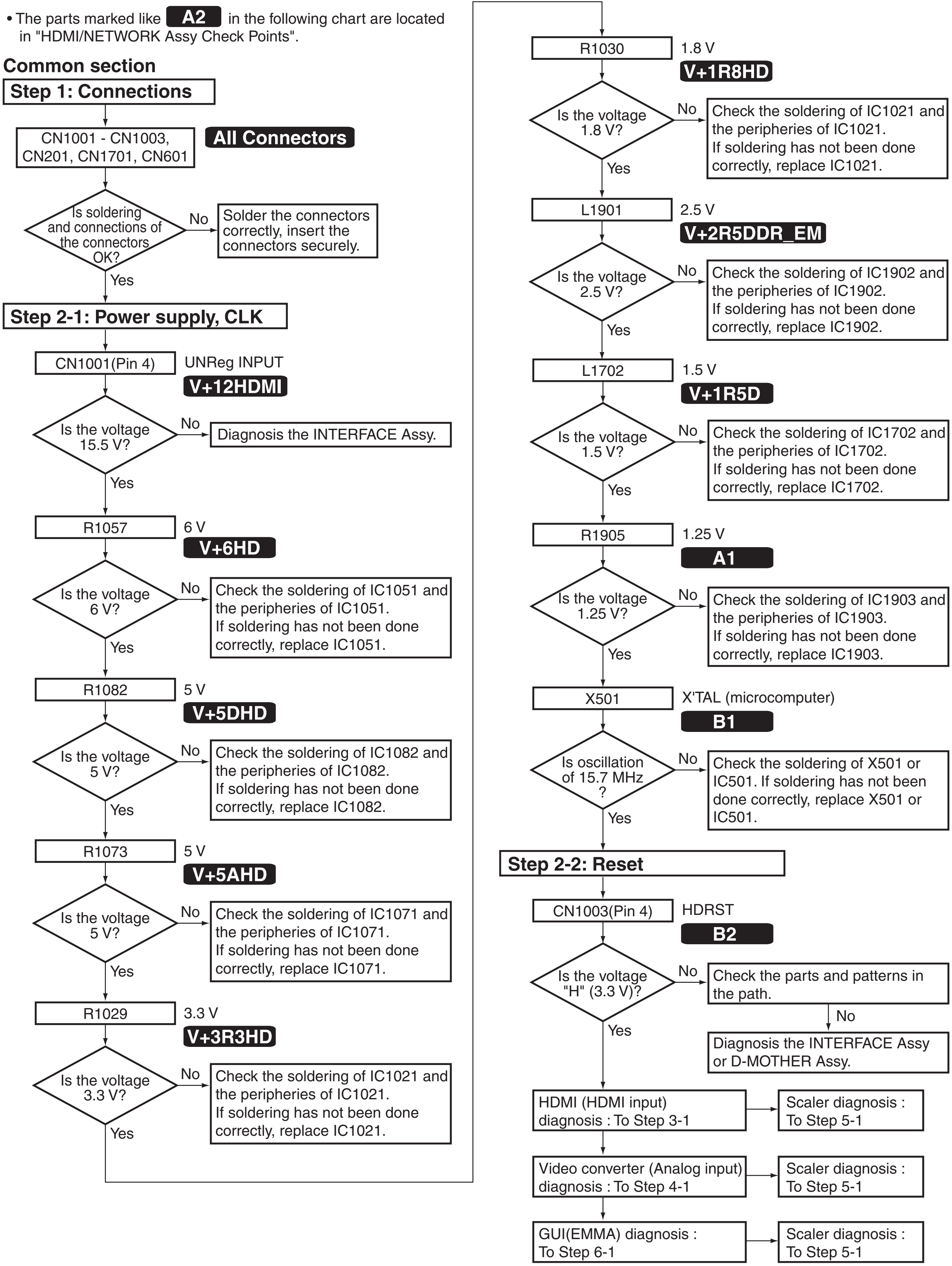
AH
R
T
S
Y
AD
AK
AI
AF
Q

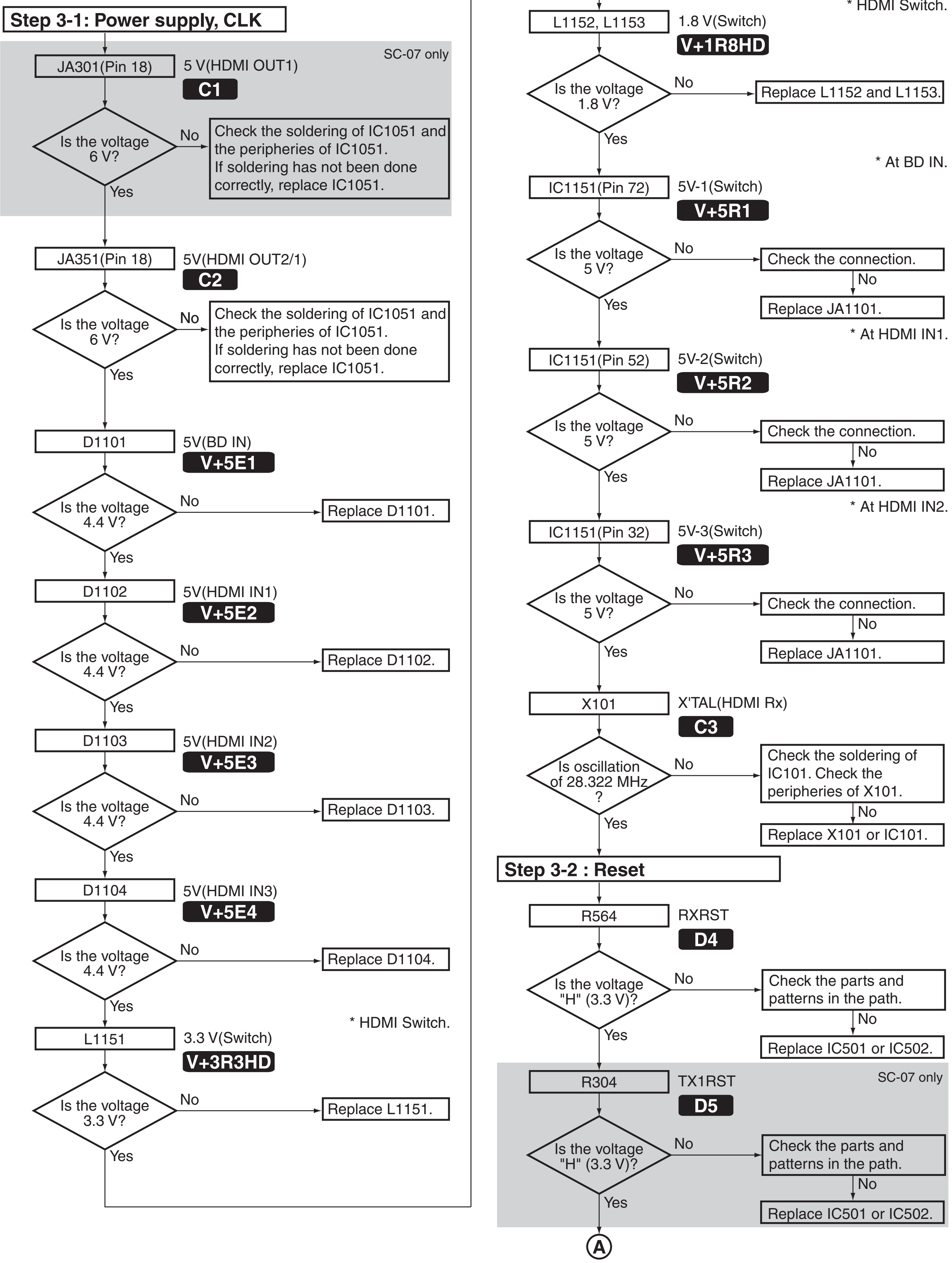
[3] HDMI Troubleshooting

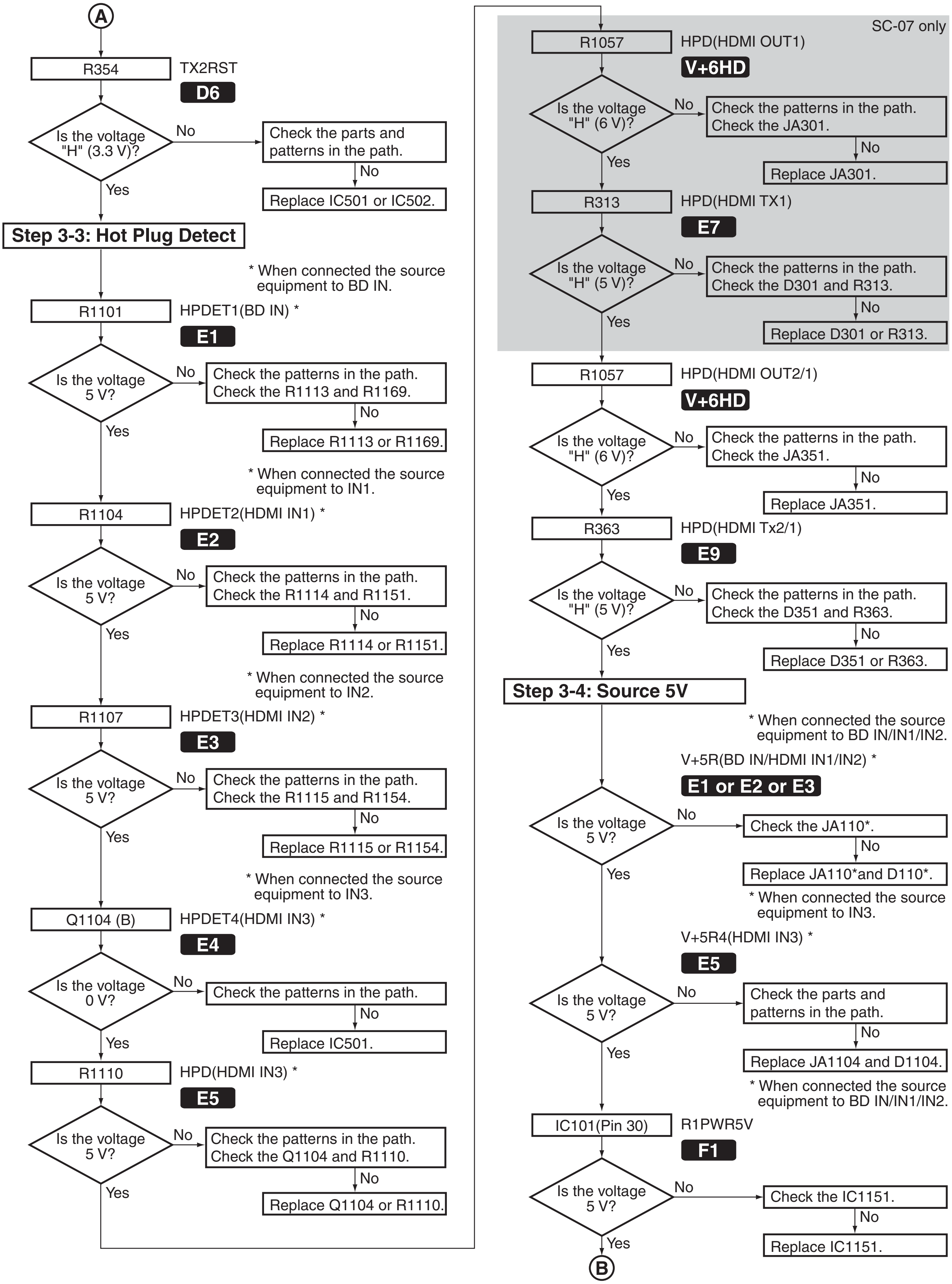
- The parts marked like **A2** in the following chart are located in "HDMI/NETWORK Assy Check Points".

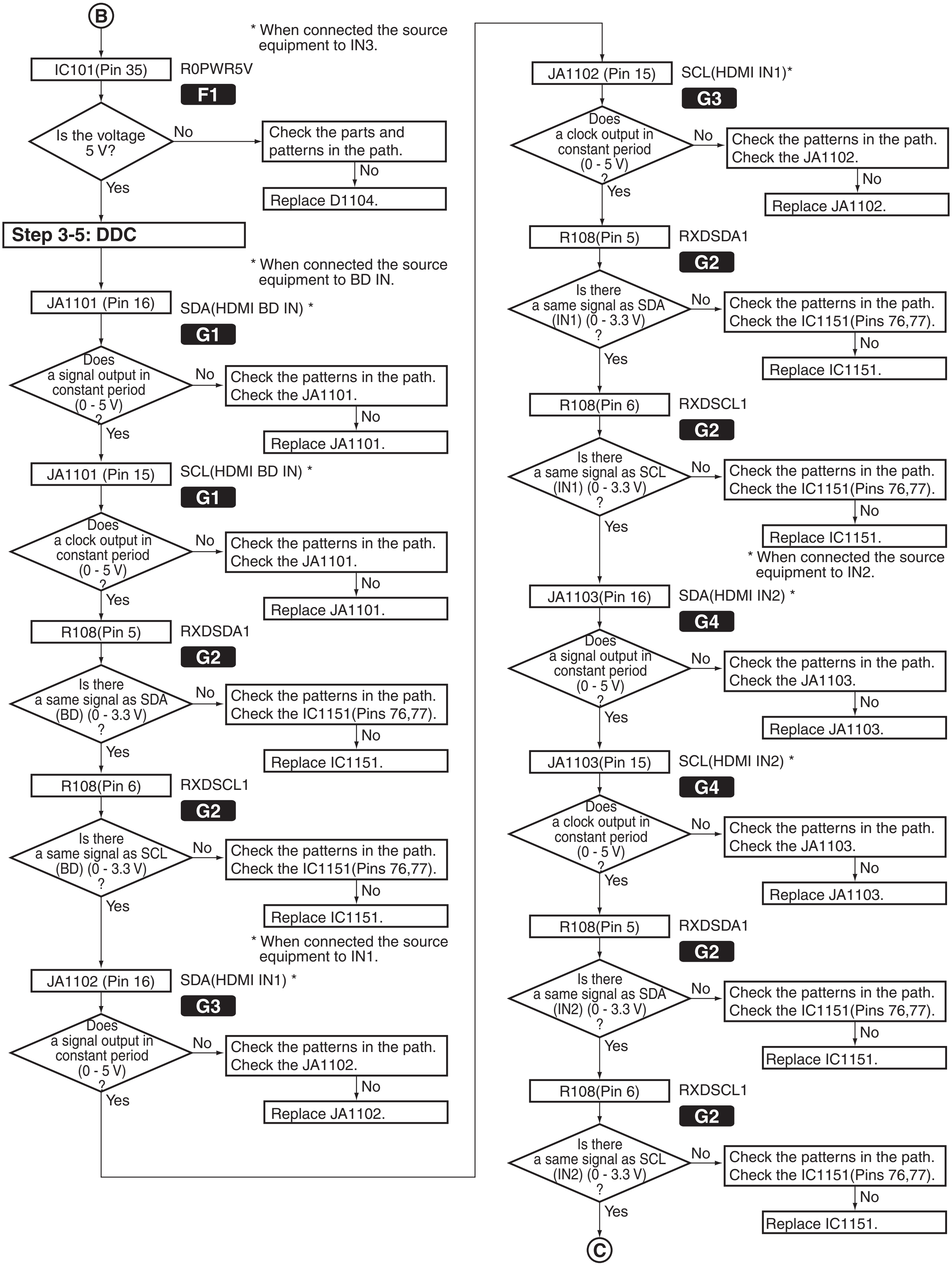
Common section

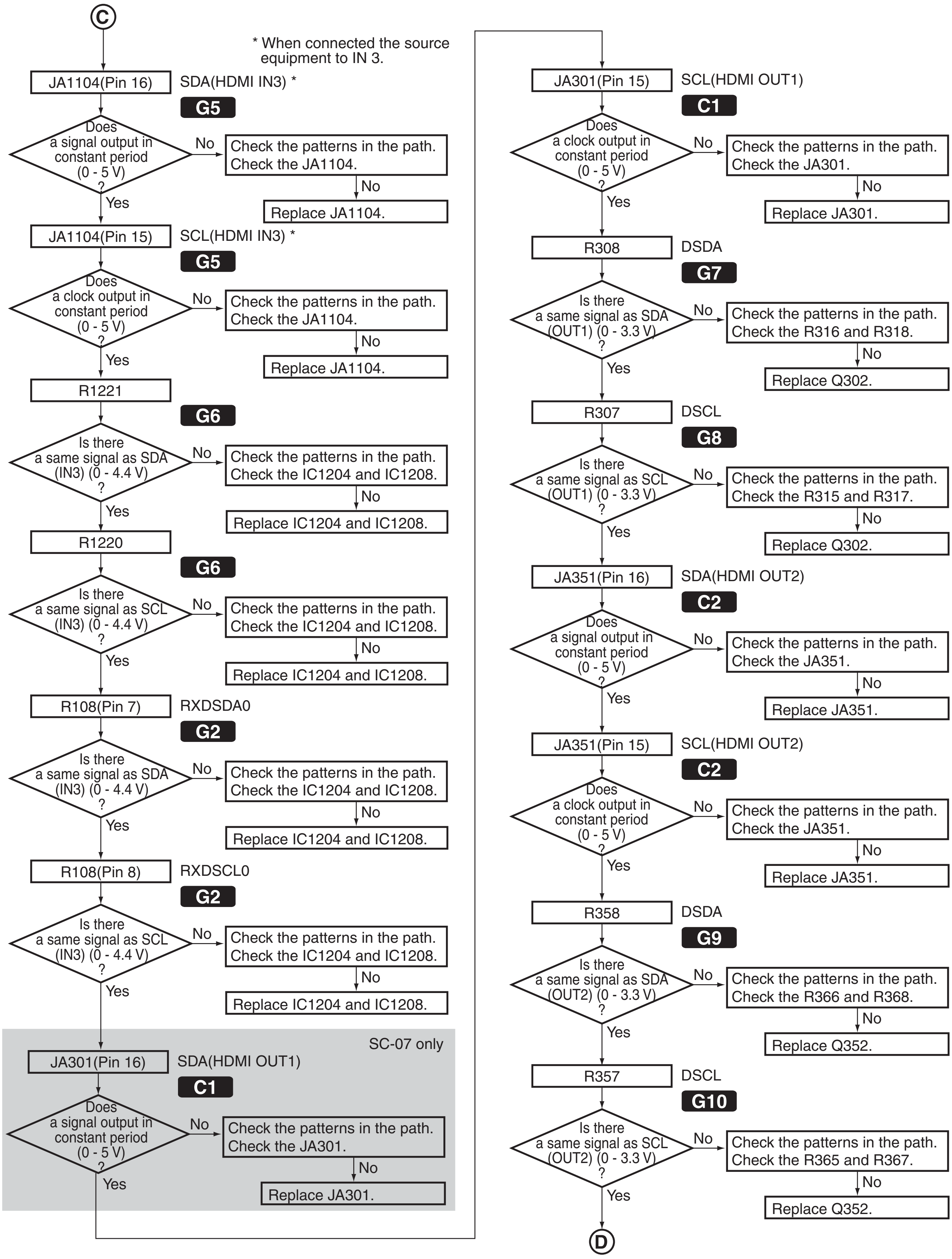

Step 1: Connections
CN1001 - CN1003, CN201, CN1701, CN601
All Connectors
Is soldering and connections of the connectors OK?
No
Solder the connectors correctly, insert the connectors securely.
Yes
Step 2-1: Power supply, CLK
CN1001(Pin 4)
UNReg INPUT
V+12HDMI
Is the voltage 15.5 V?
No
Diagnosis the INTERFACE Assy.
Yes
R1057
6 V
V+6HD
Is the voltage 6 V?
No
Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
Yes
R1082
5 V
V+5DHD
Is the voltage 5 V?
No
Check the soldering of IC1082 and the peripheries of IC1082. If soldering has not been done correctly, replace IC1082.
Yes
R1073
5 V
V+5AHD
Is the voltage 5 V?
No
Check the soldering of IC1071 and the peripheries of IC1071. If soldering has not been done correctly, replace IC1071.
Yes
R1029
3.3 V
V+3R3HD
Is the voltage 3.3 V?
No
Check the soldering of IC1021 and the peripheries of IC1021. If soldering has not been done correctly, replace IC1021.
Yes
R1030
1.8 V
V+1R8HD
Is the voltage 1.8 V?
No
Check the soldering of IC1021 and the peripheries of IC1021. If soldering has not been done correctly, replace IC1021.
Yes
L1901
2.5 V
V+2R5DDR_EM
Is the voltage 2.5 V?
No
Check the soldering of IC1902 and the peripheries of IC1902. If soldering has not been done correctly, replace IC1902.
Yes
L1702
1.5 V
V+1R5D
Is the voltage 1.5 V?
No
Check the soldering of IC1702 and the peripheries of IC1702. If soldering has not been done correctly, replace IC1702.
Yes
R1905
1.25 V
A1
Is the voltage 1.25 V?
No
Check the soldering of IC1903 and the peripheries of IC1903. If soldering has not been done correctly, replace IC1903.
Yes
X501
X'TAL (microcomputer)
B1
Is oscillation of 15.7 MHz ?
No
Check the soldering of X501 or IC501. If soldering has not been done correctly, replace X501 or IC501.
Yes
Step 2-2: Reset
CN1003(Pin 4)
HDRST
B2
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Diagnosis the INTERFACE Assy or D-MOTHER Assy.
Yes
HDMI (HDMI input) diagnosis : To Step 3-1
Scaler diagnosis : To Step 5-1
Video converter (Analog input) diagnosis : To Step 4-1
Scaler diagnosis : To Step 5-1
GUI(EMMA) diagnosis : To Step 6-1
Scaler diagnosis : To Step 5-1

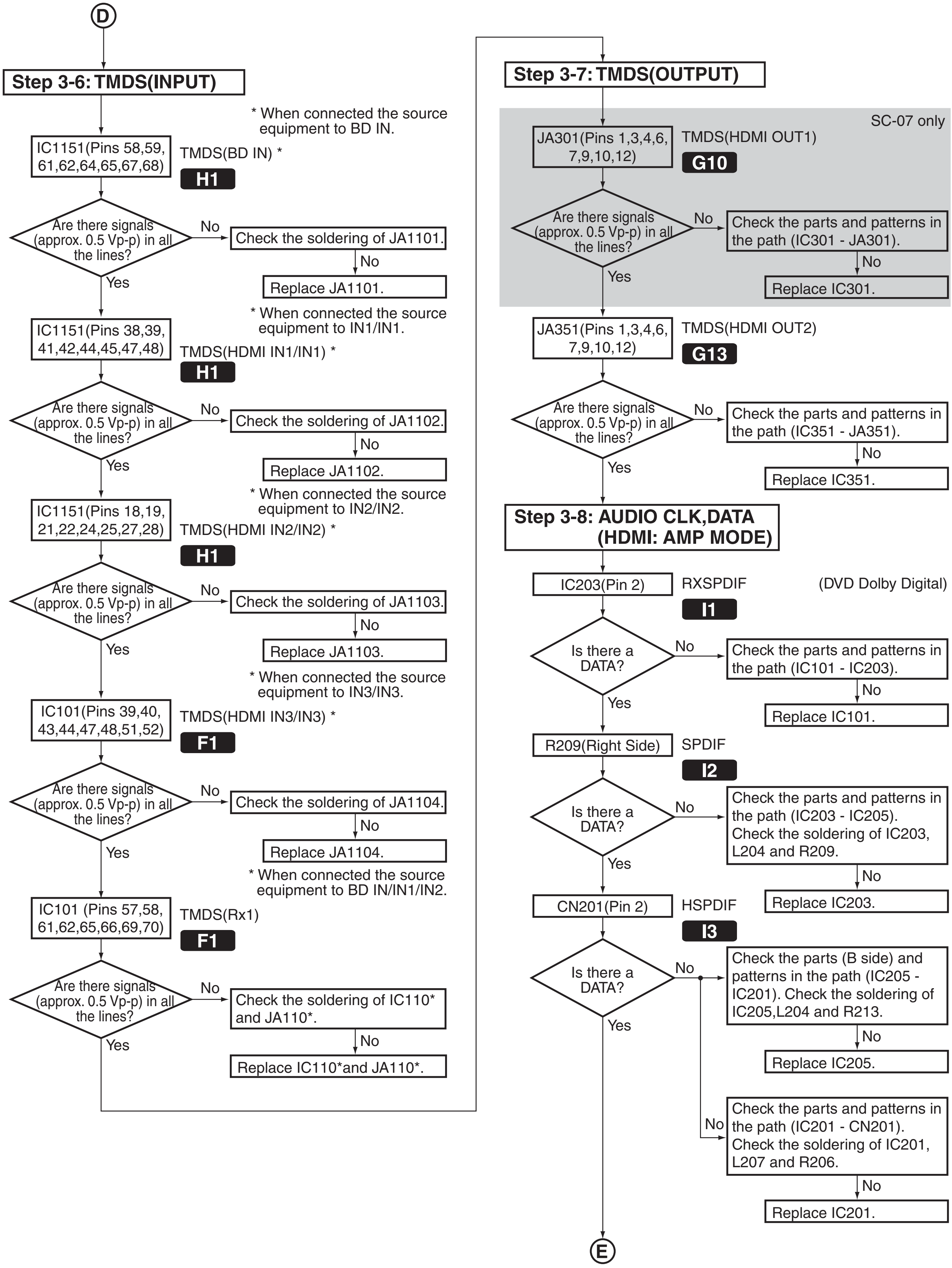
HDMI section

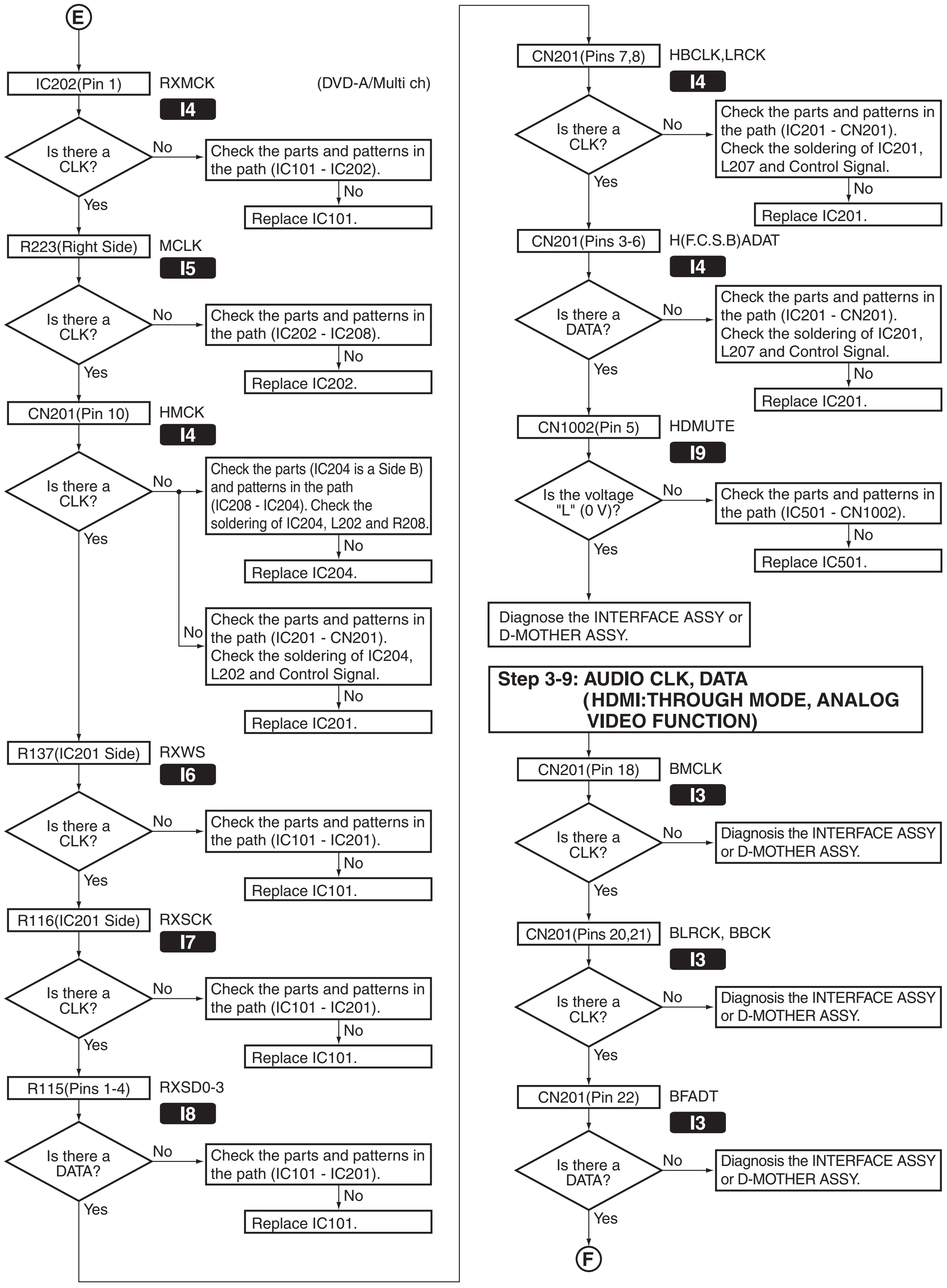

Step 3-1: Power supply, CLK
SC-07 only
JA301(Pin 18)
5 V(HDMI OUT1)
C1
Is the voltage 6 V?
No
Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
Yes
JA351(Pin 18)
5V(HDMI OUT2/1)
C2
Is the voltage 6 V?
No
Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
Yes
D1101
5V(BD IN)
V+5E1
Is the voltage 4.4 V?
No
Replace D1101.
Yes
D1102
5V(HDMI IN1)
V+5E2
Is the voltage 4.4 V?
No
Replace D1102.
Yes
D1103
5V(HDMI IN2)
V+5E3
Is the voltage 4.4 V?
No
Replace D1103.
Yes
D1104
5V(HDMI IN3)
V+5E4
Is the voltage 4.4 V?
No
Replace D1104.
Yes
* HDMI Switch.
L1151
3.3 V(Switch)
V+3R3HD
Is the voltage 3.3 V?
No
Replace L1151.
Yes
* HDMI Switch.
L1152, L1153
1.8 V(Switch)
V+1R8HD
Is the voltage 1.8 V?
No
Replace L1152 and L1153.
Yes
* At BD IN.
IC1151(Pin 72)
5V-1(Switch)
V+5R1
Is the voltage 5 V?
No
Check the connection.
No
Replace JA1101.
Yes
* At HDMI IN1.
IC1151(Pin 52)
5V-2(Switch)
V+5R2
Is the voltage 5 V?
No
Check the connection.
No
Replace JA1101.
Yes
* At HDMI IN2.
IC1151(Pin 32)
5V-3(Switch)
V+5R3
Is the voltage 5 V?
No
Check the connection.
No
Replace JA1101.
Yes
X101
X'TAL(HDMI Rx)
C3
Is oscillation of 28.322 MHz ?
No
Check the soldering of IC101. Check the peripheries of X101.
No
Replace X101 or IC101.
Yes
Step 3-2 : Reset
R564
RXRST
D4
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC501 or IC502.
Yes
SC-07 only
R304
TX1RST
D5
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC501 or IC502.
Yes
A


A
R354
TX2RST
D6
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC501 or IC502.
Yes
Step 3-3: Hot Plug Detect
* When connected the source equipment to BD IN.
R1101
HPDET1(BD IN) *
E1
Is the voltage 5 V?
No
Check the patterns in the path. Check the R1113 and R1169.
No
Replace R1113 or R1169.
Yes
* When connected the source equipment to IN1.
R1104
HPDET2(HDMI IN1) *
E2
Is the voltage 5 V?
No
Check the patterns in the path. Check the R1114 and R1151.
No
Replace R1114 or R1151.
Yes
* When connected the source equipment to IN2.
R1107
HPDET3(HDMI IN2) *
E3
Is the voltage 5 V?
No
Check the patterns in the path. Check the R1115 and R1154.
No
Replace R1115 or R1154.
Yes
* When connected the source equipment to IN3.
Q1104 (B)
HPDET4(HDMI IN3) *
E4
Is the voltage 0 V?
No
Check the patterns in the path.
No
Replace IC501.
Yes
R1110
HPD(HDMI IN3) *
E5
Is the voltage 5 V?
No
Check the patterns in the path. Check the Q1104 and R1110.
No
Replace Q1104 or R1110.
Yes
SC-07 only
R1057
HPD(HDMI OUT1)
V+6HD
Is the voltage "H" (6 V)?
No
Check the patterns in the path. Check the JA301.
No
Replace JA301.
Yes
R313
HPD(HDMI TX1)
E7
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check the D301 and R313.
No
Replace D301 or R313.
Yes
R1057
HPD(HDMI OUT2/1)
V+6HD
Is the voltage "H" (6 V)?
No
Check the patterns in the path. Check the JA351.
No
Replace JA351.
Yes
R363
HPD(HDMI Tx2/1)
E9
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check the D351 and R363.
No
Replace D351 or R363.
Yes
Step 3-4: Source 5V
* When connected the source equipment to BD IN/IN1/IN2.
V+5R(BD IN/HDMI IN1/IN2) *
E1 or E2 or E3
Is the voltage 5 V?
No
Check the JA110*.
No
Replace JA110*and D110*.
Yes
* When connected the source equipment to IN3.
V+5R4(HDMI IN3) *
E5
Is the voltage 5 V?
No
Check the parts and patterns in the path.
No
Replace JA1104 and D1104.
Yes
* When connected the source equipment to BD IN/IN1/IN2.
IC101(Pin 30)
R1PWR5V
F1
Is the voltage 5 V?
No
Check the IC1151.
No
Replace IC1151.
Yes
B

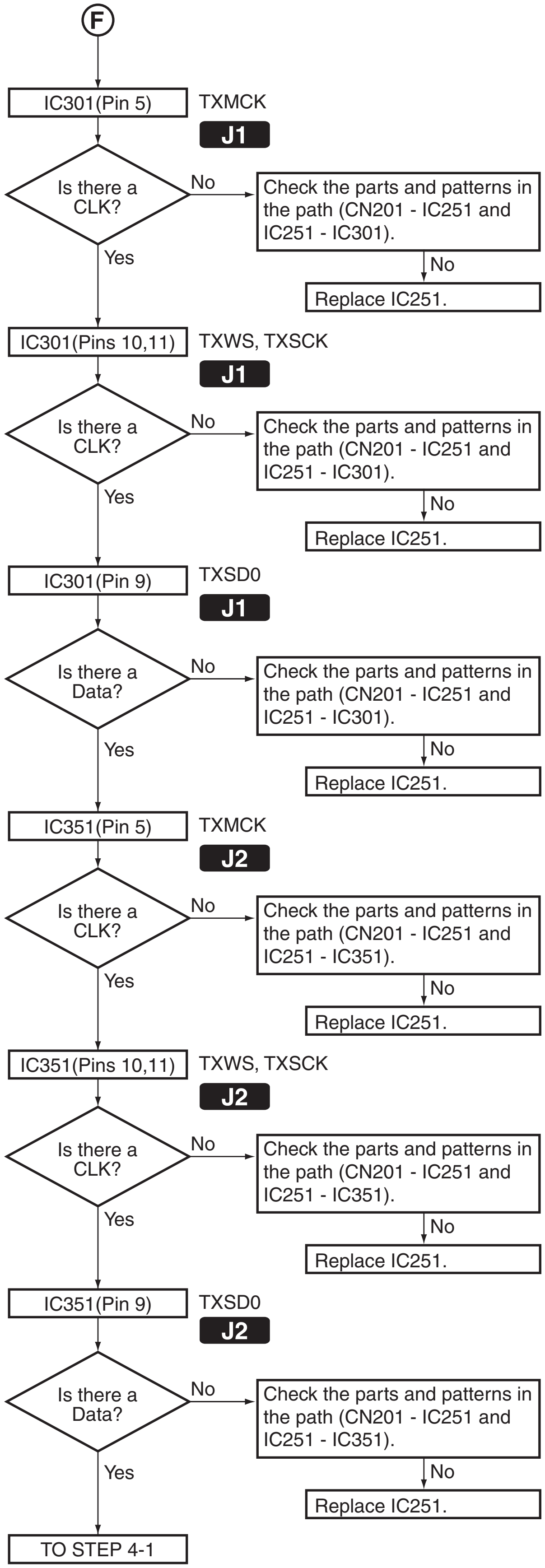

B
* When connected the source equipment to IN3.
IC101(Pin 35)
R0PWR5V
F1
Is the voltage 5 V?
No
Check the parts and patterns in the path.
No
Replace D1104.
Yes
Step 3-5: DDC
* When connected the source equipment to BD IN.
JA1101 (Pin 16)
SDA(HDMI BD IN) *
G1
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1101.
No
Replace JA1101.
Yes
JA1101 (Pin 15)
SCL(HDMI BD IN) *
G1
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1101.
No
Replace JA1101.
Yes
R108(Pin 5)
RXDSDA1
G2
Is there a same signal as SDA (BD) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
R108(Pin 6)
RXDSCL1
G2
Is there a same signal as SCL (BD) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
* When connected the source equipment to IN1.
JA1102 (Pin 16)
SDA(HDMI IN1) *
G3
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1102.
No
Replace JA1102.
Yes
JA1102 (Pin 15)
SCL(HDMI IN1)*
G3
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1102.
No
Replace JA1102.
Yes
R108(Pin 5)
RXDSDA1
G2
Is there a same signal as SDA (IN1) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
R108(Pin 6)
RXDSCL1
G2
Is there a same signal as SCL (IN1) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
* When connected the source equipment to IN2.
JA1103(Pin 16)
SDA(HDMI IN2) *
G4
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1103.
No
Replace JA1103.
Yes
JA1103(Pin 15)
SCL(HDMI IN2) *
G4
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1103.
No
Replace JA1103.
Yes
R108(Pin 5)
RXDSDA1
G2
Is there a same signal as SDA (IN2) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
R108(Pin 6)
RXDSCL1
G2
Is there a same signal as SCL (IN2) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
C


C
* When connected the source equipment to IN 3.
JA1104(Pin 16)
SDA(HDMI IN3) *
G5
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1104.
No
Replace JA1104.
Yes
JA1104(Pin 15)
SCL(HDMI IN3) *
G5
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1104.
No
Replace JA1104.
Yes
R1221
G6
Is there a same signal as SDA (IN3) (0 - 4.4 V) ?
No
Check the patterns in the path. Check the IC1204 and IC1208.
No
Replace IC1204 and IC1208.
Yes
R1220
G6
Is there a same signal as SCL (IN3) (0 - 4.4 V) ?
No
Check the patterns in the path. Check the IC1204 and IC1208.
No
Replace IC1204 and IC1208.
Yes
R108(Pin 7)
RXDSDA0
G2
Is there a same signal as SDA (IN3) (0 - 4.4 V) ?
No
Check the patterns in the path. Check the IC1204 and IC1208.
No
Replace IC1204 and IC1208.
Yes
R108(Pin 8)
RXDSCL0
G2
Is there a same signal as SCL (IN3) (0 - 4.4 V) ?
No
Check the patterns in the path. Check the IC1204 and IC1208.
No
Replace IC1204 and IC1208.
Yes
SC-07 only
JA301(Pin 16)
SDA(HDMI OUT1)
C1
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA301.
No
Replace JA301.
Yes
JA301(Pin 15)
SCL(HDMI OUT1)
C1
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA301.
No
Replace JA301.
Yes
R308
DSDA
G7
Is there a same signal as SDA (OUT1) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the R316 and R318.
No
Replace Q302.
Yes
R307
DSCL
G8
Is there a same signal as SCL (OUT1) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the R315 and R317.
No
Replace Q302.
Yes
JA351(Pin 16)
SDA(HDMI OUT2)
C2
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA351.
No
Replace JA351.
Yes
JA351(Pin 15)
SCL(HDMI OUT2)
C2
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA351.
No
Replace JA351.
Yes
R358
DSDA
G9
Is there a same signal as SDA (OUT2) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the R366 and R368.
No
Replace Q352.
Yes
R357
DSCL
G10
Is there a same signal as SCL (OUT2) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the R365 and R367.
No
Replace Q352.
Yes
D

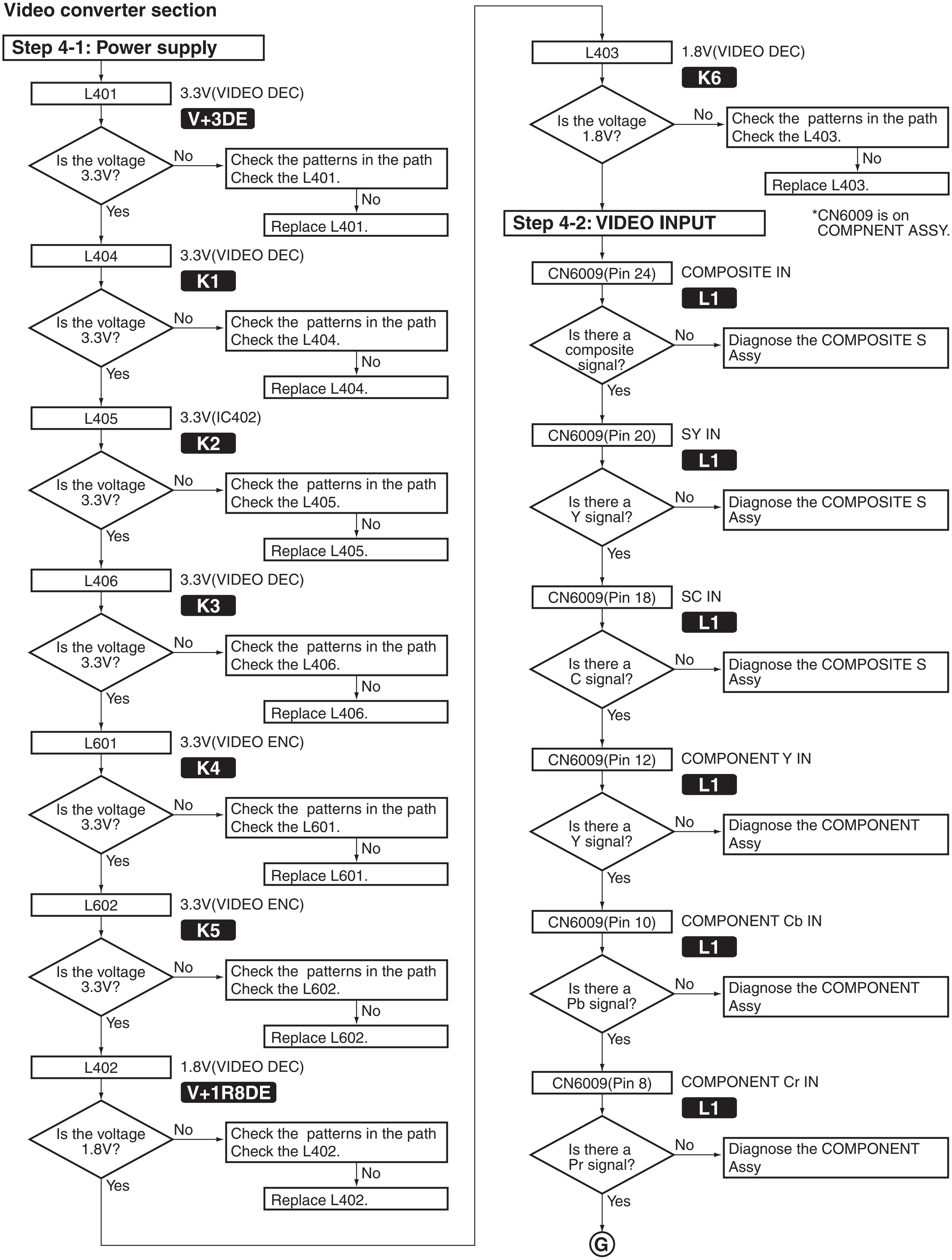

D
Step 3-6: TMDS(INPUT)
* When connected the source equipment to BD IN.
IC1151(Pins 58,59, 61,62,64,65,67,68)
TMDS(BD IN) *
H1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of JA1101.
No
Replace JA1101.
Yes
* When connected the source equipment to IN1/IN1.
IC1151(Pins 38,39, 41,42,44,45,47,48)
TMDS(HDMI IN1/IN1) *
H1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of JA1102.
No
Replace JA1102.
Yes
* When connected the source equipment to IN2/IN2.
IC1151(Pins 18,19, 21,22,24,25,27,28)
TMDS(HDMI IN2/IN2) *
H1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of JA1103.
No
Replace JA1103.
Yes
* When connected the source equipment to IN3/IN3.
IC101(Pins 39,40, 43,44,47,48,51,52)
TMDS(HDMI IN3/IN3) *
F1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of JA1104.
No
Replace JA1104.
Yes
* When connected the source equipment to BD IN/IN1/IN2.
IC101 (Pins 57,58, 61,62,65,66,69,70)
TMDS(Rx1)
F1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of IC110* and JA110*.
No
Replace IC110*and JA110*.
Yes
Step 3-7: TMDS(OUTPUT)
SC-07 only
JA301(Pins 1,3,4,6, 7,9,10,12)
TMDS(HDMI OUT1)
G10
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the parts and patterns in the path (IC301 - JA301).
No
Replace IC301.
Yes
JA351(Pins 1,3,4,6, 7,9,10,12)
TMDS(HDMI OUT2)
G13
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the parts and patterns in the path (IC351 - JA351).
No
Replace IC351.
Yes
Step 3-8: AUDIO CLK,DATA (HDMI: AMP MODE)
IC203(Pin 2)
RXSPDIF
(DVD Dolby Digital)
I1
Is there a DATA?
No
Check the parts and patterns in the path (IC101 - IC203).
No
Replace IC101.
Yes
R209(Right Side)
SPDIF
I2
Is there a DATA?
No
Check the parts and patterns in the path (IC203 - IC205). Check the soldering of IC203, L204 and R209.
No
Replace IC203.
Yes
CN201(Pin 2)
HSPDIF
I3
Is there a DATA?
No
Check the parts (B side) and patterns in the path (IC205 - IC201). Check the soldering of IC205,L204 and R213.
No
Replace IC205.
No
Check the parts and patterns in the path (IC201 - CN201). Check the soldering of IC201, L207 and R206.
No
Replace IC201.
Yes
E

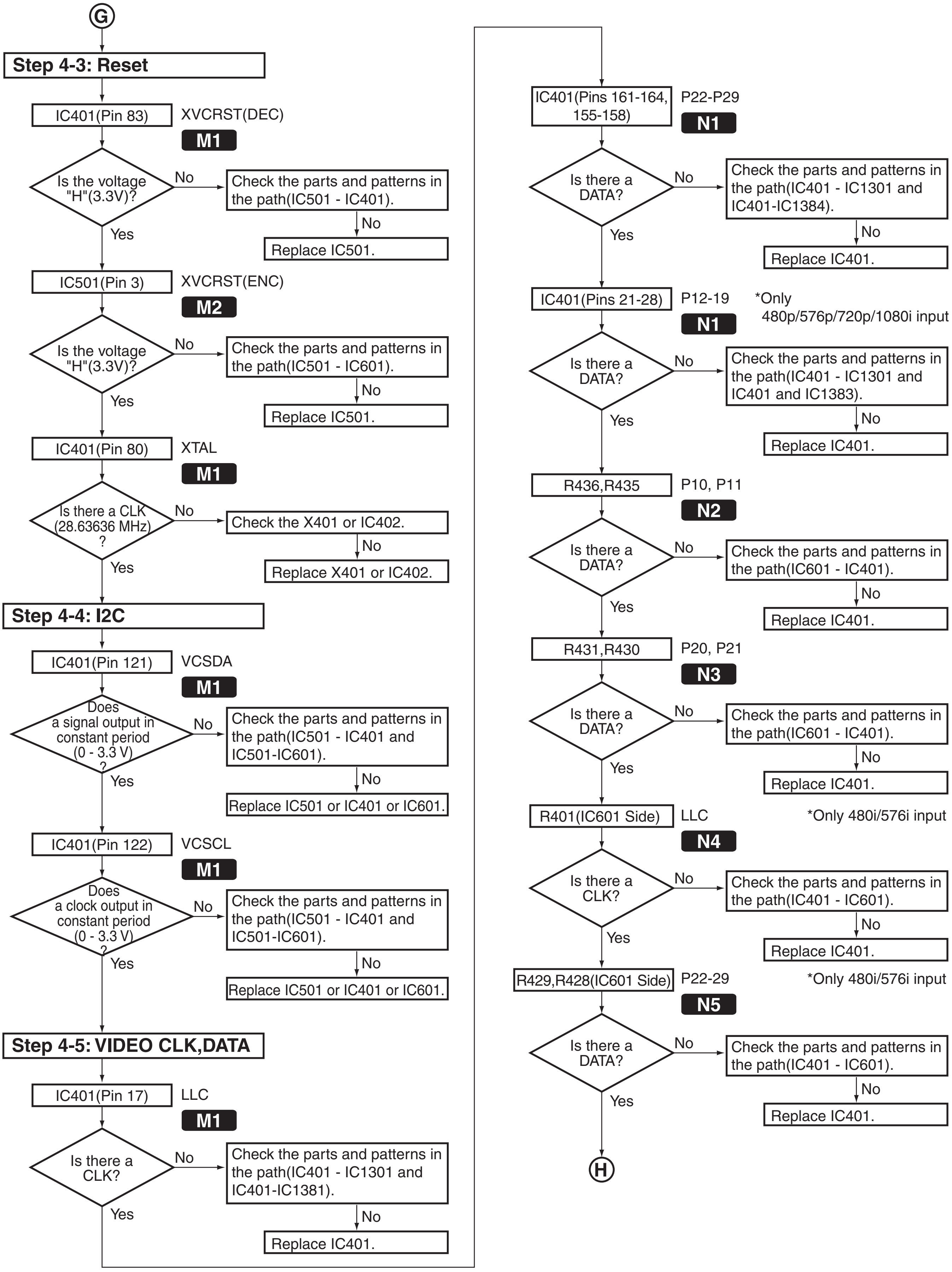

E
IC202(Pin 1)
RXMCK
I4
(DVD-A/Multi ch)
Is there a CLK?
No
Check the parts and patterns in the path (IC101 - IC202).
No
Replace IC101.
Yes
R223(Right Side)
MCLK
I5
Is there a CLK?
No
Check the parts and patterns in the path (IC202 - IC208).
No
Replace IC202.
Yes
CN201(Pin 10)
HMCK
I4
Is there a CLK?
No
Check the parts (IC204 is a Side B) and patterns in the path (IC208 - IC204). Check the soldering of IC204, L202 and R208.
No
Replace IC204.
No
Check the parts and patterns in the path (IC201 - CN201). Check the soldering of IC204, L202 and Control Signal.
No
Replace IC201.
Yes
R137(IC201 Side)
RXWS
I6
Is there a CLK?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
R116(IC201 Side)
RXSCK
I7
Is there a CLK?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
R115(Pins 1-4)
RXSD0-3
I8
Is there a DATA?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
CN201(Pins 7,8)
HBCLK,LRCK
I4
Is there a CLK?
No
Check the parts and patterns in the path (IC201 - CN201). Check the soldering of IC201, L207 and Control Signal.
No
Replace IC201.
Yes
CN201(Pins 3-6)
H(F.C.S.B)ADAT
I4
Is there a DATA?
No
Check the parts and patterns in the path (IC201 - CN201). Check the soldering of IC201, L207 and Control Signal.
No
Replace IC201.
Yes
CN1002(Pin 5)
HDMUTE
I9
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 - CN1002).
No
Replace IC501.
Yes
Diagnose the INTERFACE ASSY or D-MOTHER ASSY.
CN201(Pin 18)
BMCLK
I3
Is there a CLK?
No
Diagnosis the INTERFACE ASSY or D-MOTHER ASSY.
Yes
CN201(Pins 20,21)
BLRCK, BBCK
I3
Is there a CLK?
No
Diagnosis the INTERFACE ASSY or D-MOTHER ASSY.
Yes
CN201(Pin 22)
BFADT
I3
Is there a DATA?
No
Diagnosis the INTERFACE ASSY or D-MOTHER ASSY.
Yes
F

Step 3-9: AUDIO CLK, DATA (HDMI:THROUGH MODE, ANALOG VIDEO FUNCTION)

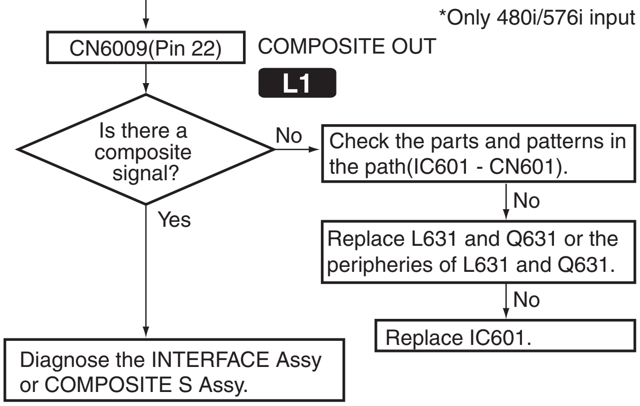

F
IC301(Pin 5)
TXMCK
J1
Is there a CLK?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
IC301(Pins 10,11)
TXWS, TXSCK
J1
Is there a CLK?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
IC301(Pin 9)
TXSD0
J1
Is there a Data?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
IC351(Pin 5)
TXMCK
J2
Is there a CLK?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC351).
No
Replace IC251.
Yes
IC351(Pins 10,11)
TXWS, TXSCK
J2
Is there a CLK?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC351).
No
Replace IC251.
Yes
IC351(Pin 9)
TXSD0
J2
Is there a Data?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC351).
No
Replace IC251.
Yes
TO STEP 4-1

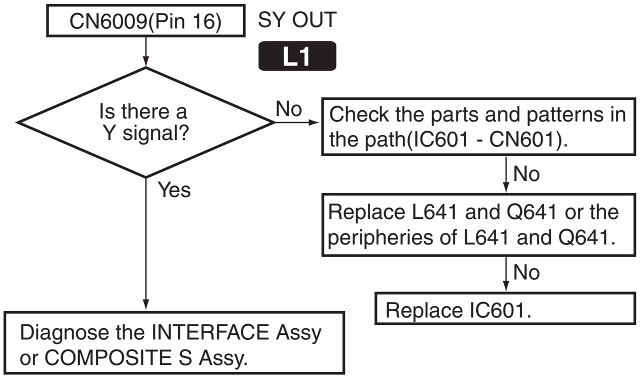
Video converter section

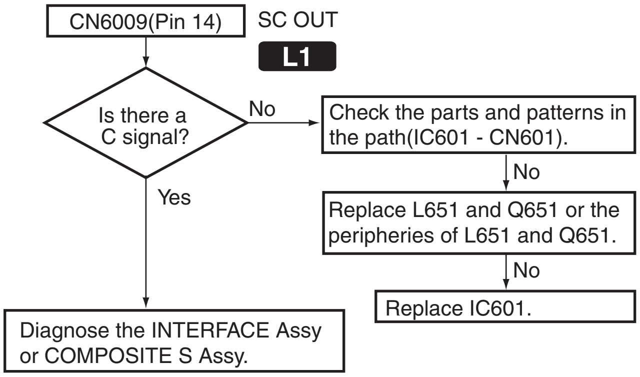

Step 4-1: Power supply
L401
3.3V(VIDEO DEC)
V+3DE
Is the voltage 3.3V?
No
Check the patterns in the path Check the L401.
No
Replace L401.
Yes
L404
3.3V(VIDEO DEC)
K1
Is the voltage 3.3V?
No
Check the patterns in the path Check the L404.
No
Replace L404.
Yes
L405
3.3V(IC402)
K2
Is the voltage 3.3V?
No
Check the patterns in the path Check the L405.
No
Replace L405.
Yes
L406
3.3V(VIDEO DEC)
K3
Is the voltage 3.3V?
No
Check the patterns in the path Check the L406.
No
Replace L406.
Yes
L601
3.3V(VIDEO ENC)
K4
Is the voltage 3.3V?
No
Check the patterns in the path Check the L601.
No
Replace L601.
Yes
L602
3.3V(VIDEO ENC)
K5
Is the voltage 3.3V?
No
Check the patterns in the path Check the L602.
No
Replace L602.
Yes
L402
1.8V(VIDEO DEC)
V+1R8DE
Is the voltage 1.8V?
No
Check the patterns in the path Check the L402.
No
Replace L402.
Yes
L403
1.8V(VIDEO DEC)
K6
Is the voltage 1.8V?
No
Check the patterns in the path Check the L403.
No
Replace L403.
Step 4-2: VIDEO INPUT
*CN6009 is on COMPNENT ASSY.
CN6009(Pin 24)
COMPOSITE IN
L1
Is there a composite signal?
No
Diagnose the COMPOSITE S Assy
Yes
CN6009(Pin 20)
SY IN
L1
Is there a Y signal?
No
Diagnose the COMPOSITE S Assy
Yes
CN6009(Pin 18)
SC IN
L1
Is there a C signal?
No
Diagnose the COMPOSITE S Assy
Yes
CN6009(Pin 12)
COMPONENT Y IN
L1
Is there a Y signal?
No
Diagnose the COMPONENT Assy
Yes
CN6009(Pin 10)
COMPONENT Cb IN
L1
Is there a Pb signal?
No
Diagnose the COMPONENT Assy
Yes
CN6009(Pin 8)
COMPONENT Cr IN
L1
Is there a Pr signal?
No
Diagnose the COMPONENT Assy
Yes
G

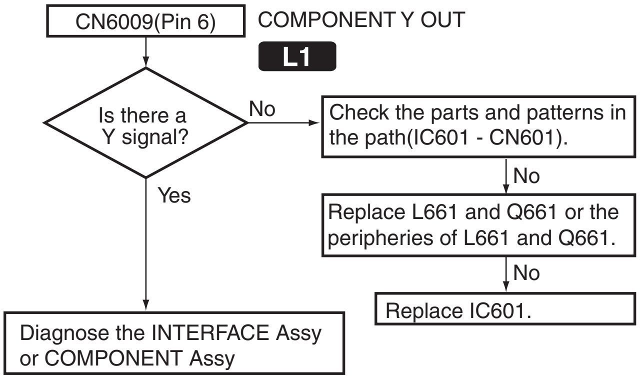

G
Step 4-3: Reset
IC401(Pin 83)
XVCRST(DEC)
M1
Is the voltage "H"(3.3V)?
No
Check the parts and patterns in the path(IC501 - IC401).
No
Replace IC501.
Yes
IC501(Pin 3)
XVCRST(ENC)
M2
Is the voltage "H"(3.3V)?
No
Check the parts and patterns in the path(IC501 - IC601).
No
Replace IC501.
Yes
IC401(Pin 80)
XTAL
M1
Is there a CLK (28.63636 MHz) ?
No
Check the X401 or IC402.
No
Replace X401 or IC402.
Yes
Step 4-4: I2C
IC401(Pin 121)
VCSDA
M1
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401 and IC501-IC601).
No
Replace IC501 or IC401 or IC601.
Yes
IC401(Pin 122)
VCSCL
M1
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401 and IC501-IC601).
No
Replace IC501 or IC401 or IC601.
Yes
Step 4-5: VIDEO CLK,DATA
IC401(Pin 17)
LLC
M1
Is there a CLK?
No
Check the parts and patterns in the path(IC401 - IC1301 and IC401-IC1381).
No
Replace IC401.
Yes
IC401(Pins 161-164, 155-158)
P22-P29
N1
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1301 and IC401-IC1384).
No
Replace IC401.
Yes
IC401(Pins 21-28)
P12-19
*Only 480p/576p/720p/1080i input
N1
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1301 and IC401 and IC1383).
No
Replace IC401.
Yes
R436,R435
P10, P11
N2
Is there a DATA?
No
Check the parts and patterns in the path(IC601 - IC401).
No
Replace IC401.
Yes
R431,R430
P20, P21
N3
Is there a DATA?
No
Check the parts and patterns in the path(IC601 - IC401).
No
Replace IC401.
Yes
R401(IC601 Side)
LLC
*Only 480i/576i input
N4
Is there a CLK?
No
Check the parts and patterns in the path(IC401 - IC601).
No
Replace IC401.
Yes
R429,R428(IC601 Side)
P22-29
*Only 480i/576i input
N5
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC601).
No
Replace IC401.
Yes
H

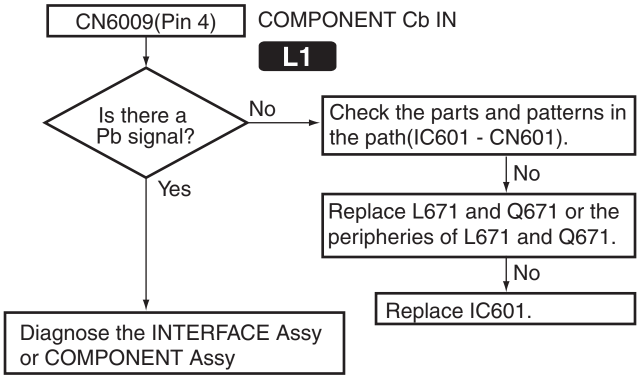
Step 4-6: VIDEO OUTPUT

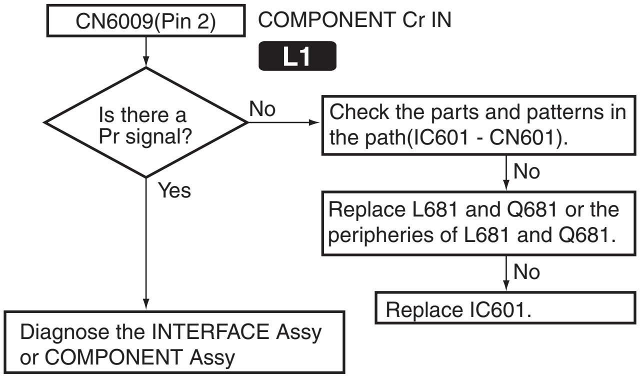

*Only 480i/576i input
CN6009(Pin 22)
COMPOSITE OUT
L1
Is there a composite signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L631 and Q631 or the peripheries of L631 and Q631.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPOSITE S Assy.


CN6009(Pin 16)
SY OUT
L1
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L641 and Q641 or the peripheries of L641 and Q641.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPOSITE S Assy.

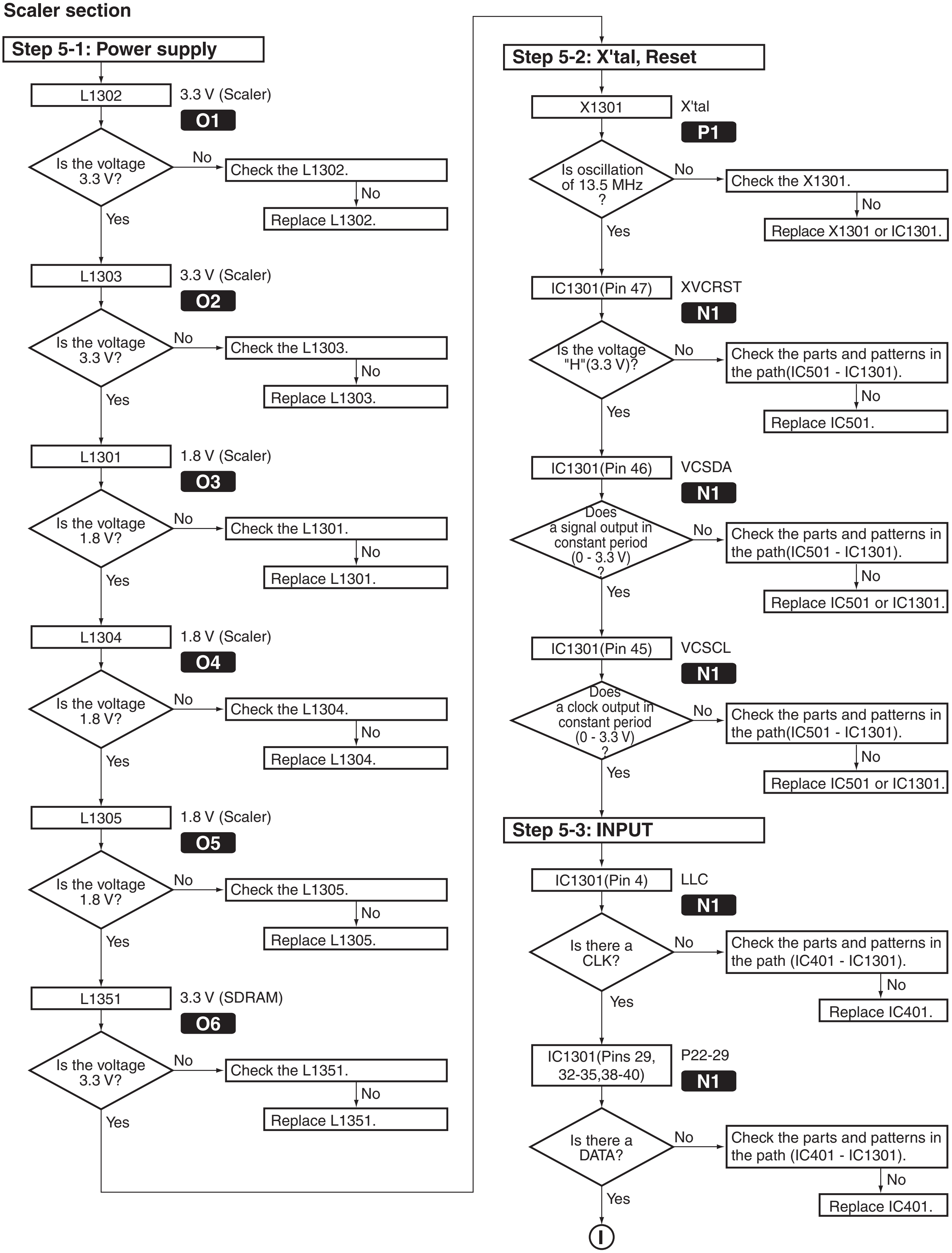

CN6009(Pin 14)
SC OUT
L1
Is there a C signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L651 and Q651 or the peripheries of L651 and Q651.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPOSITE S Assy.

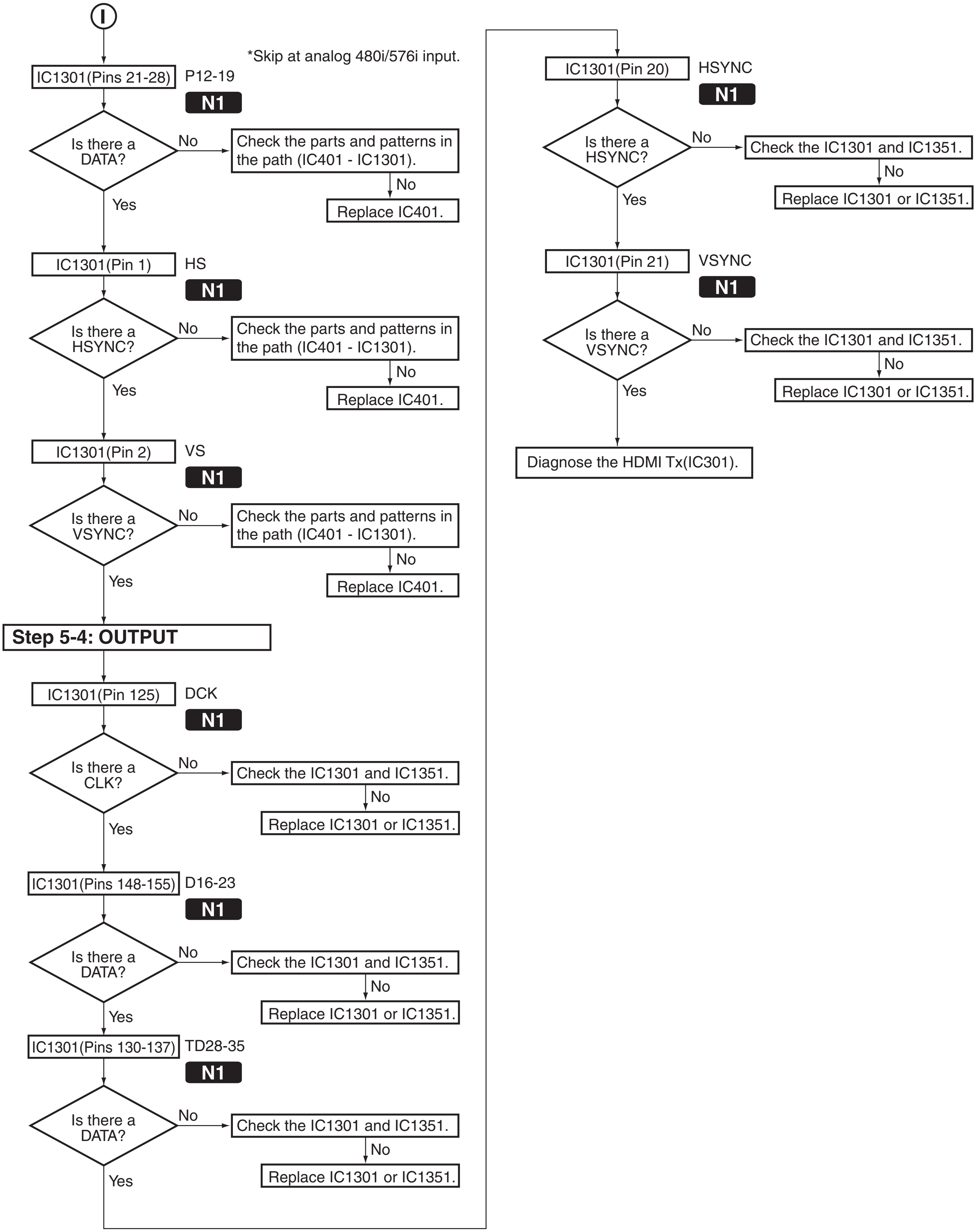

CN6009(Pin 6)
COMPONENT Y OUT
L1
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L661 and Q661 or the peripheries of L661 and Q661.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPONENT Assy


CN6009(Pin 4)
COMPONENT Cb IN
L1
Is there a Pb signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L671 and Q671 or the peripheries of L671 and Q671.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPONENT Assy


CN6009(Pin 2)
COMPONENT Cr IN
L1
Is there a Pr signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L681 and Q681 or the peripheries of L681 and Q681.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPONENT Assy

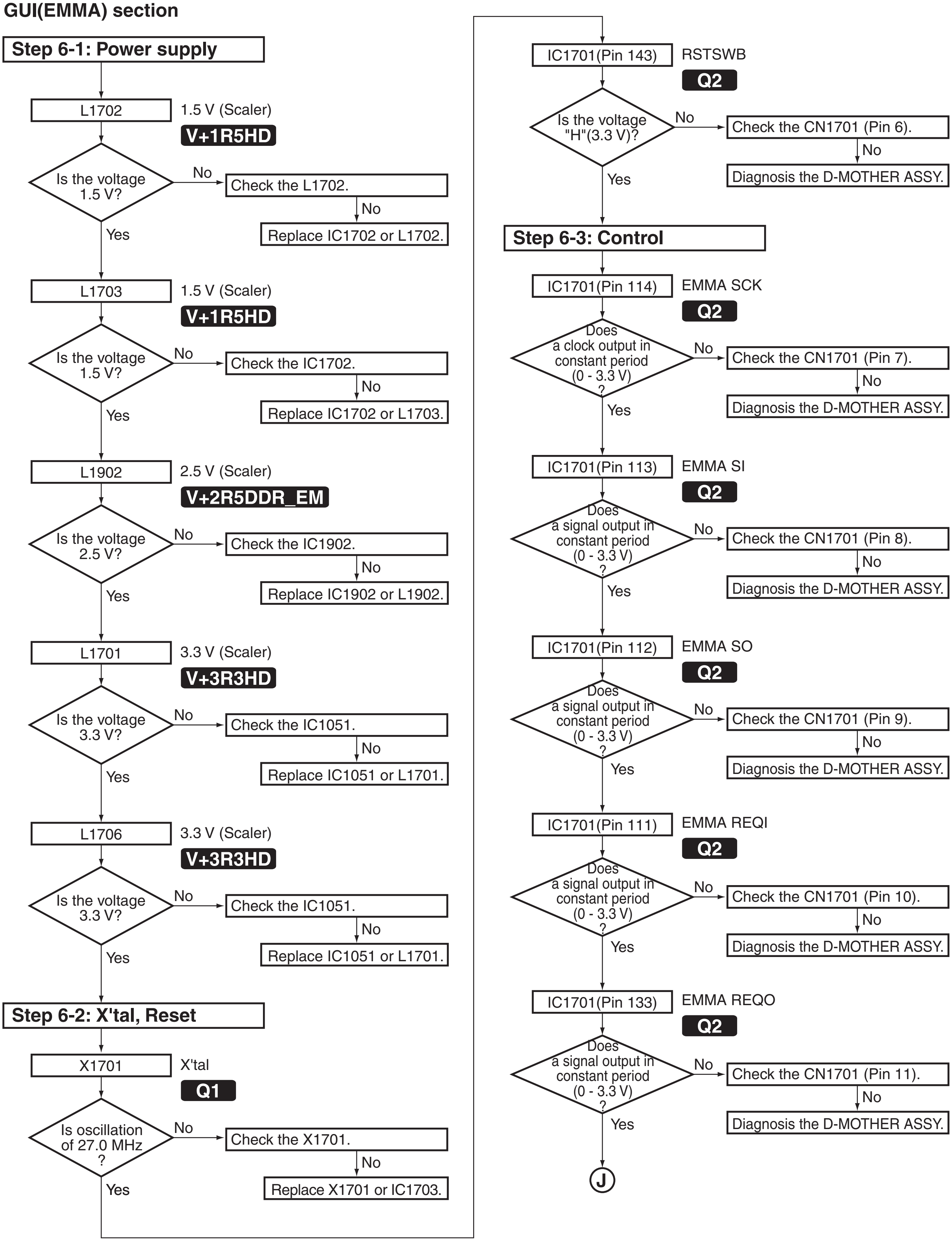
Scaler section

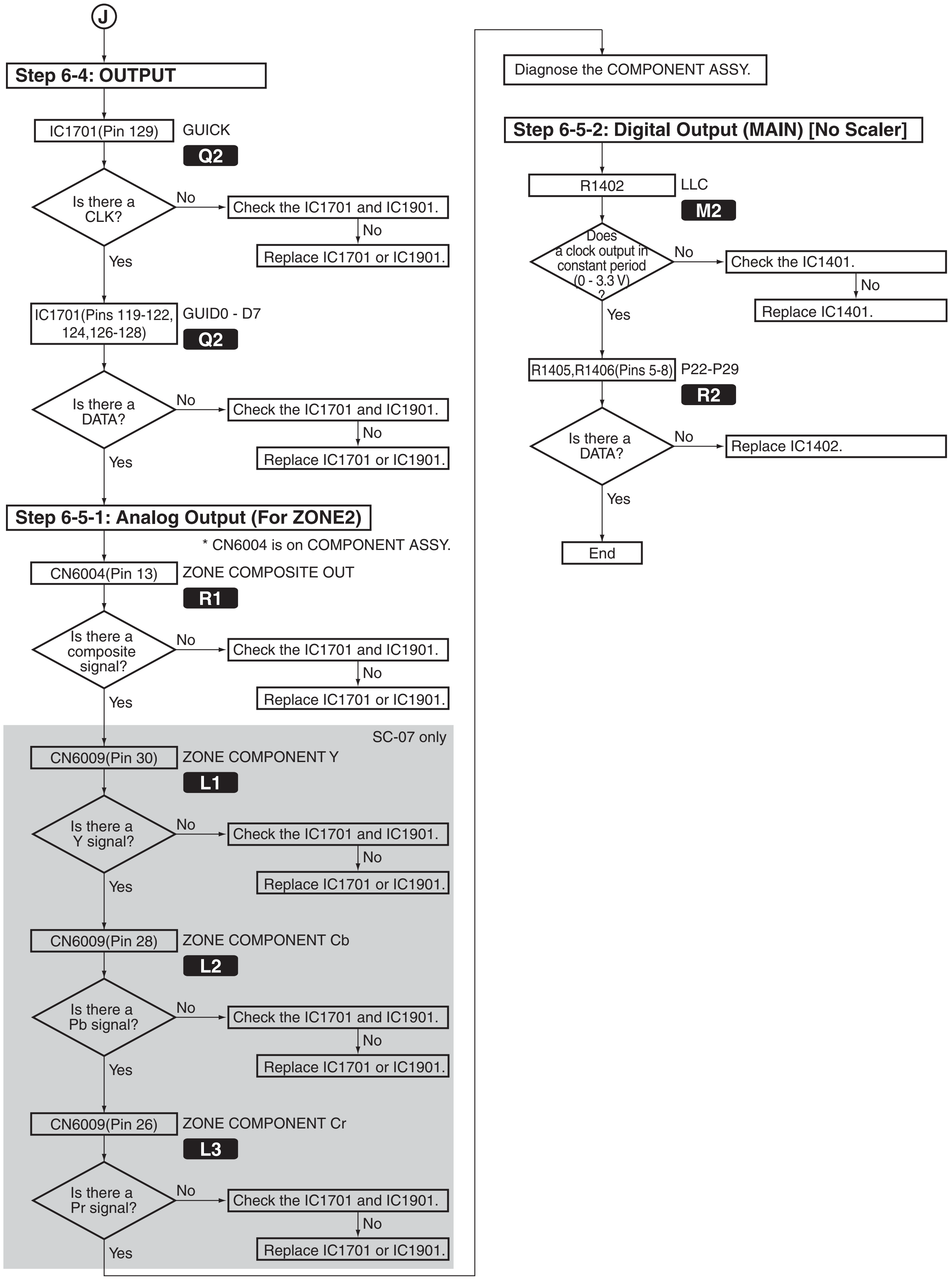

Step 5-1: Power supply
L1302
3.3 V (Scaler)
O1
Is the voltage 3.3 V?
No
Check the L1302.
No
Replace L1302.
Yes
L1303
3.3 V (Scaler)
O2
Is the voltage 3.3 V?
No
Check the L1303.
No
Replace L1303.
Yes
L1301
1.8 V (Scaler)
O3
Is the voltage 1.8 V?
No
Check the L1301.
No
Replace L1301.
Yes
L1304
1.8 V (Scaler)
O4
Is the voltage 1.8 V?
No
Check the L1304.
No
Replace L1304.
Yes
L1305
1.8 V (Scaler)
O5
Is the voltage 1.8 V?
No
Check the L1305.
No
Replace L1305.
Yes
L1351
3.3 V (SDRAM)
O6
Is the voltage 3.3 V?
No
Check the L1351.
No
Replace L1351.
Yes
Step 5-2: X'tal, Reset
X1301
X'tal
P1
Is oscillation of 13.5 MHz ?
No
Check the X1301.
No
Replace X1301 or IC1301.
Yes
IC1301(Pin 47)
XVCRST
N1
Is the voltage "H"(3.3 V)?
No
Check the parts and patterns in the path(IC501 - IC1301).
No
Replace IC501.
Yes
IC1301(Pin 46)
VCSDA
N1
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC1301).
No
Replace IC501 or IC1301.
Yes
IC1301(Pin 45)
VCSCL
N1
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC1301).
No
Replace IC501 or IC1301.
Yes
Step 5-3: INPUT
IC1301(Pin 4)
LLC
N1
Is there a CLK?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301(Pins 29, 32-35,38-40)
P22-29
N1
Is there a DATA?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
I


I
IC1301(Pins 21-28)
P12-19
N1
Is there a DATA?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301(Pin 1)
HS
N1
Is there a HSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301(Pin 2)
VS
N1
Is there a VSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
Step 5-4: OUTPUT
IC1301(Pin 125)
DCK
N1
Is there a CLK?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pins 148-155)
D16-23
N1
Is there a DATA?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pins 130-137)
TD28-35
N1
Is there a DATA?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pin 20)
HSYNC
N1
Is there a HSYNC?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pin 21)
VSYNC
N1
Is there a VSYNC?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
Diagnose the HDMI Tx(IC301).

*Skip at analog 480i/576i input.

GUI(EMMA) section

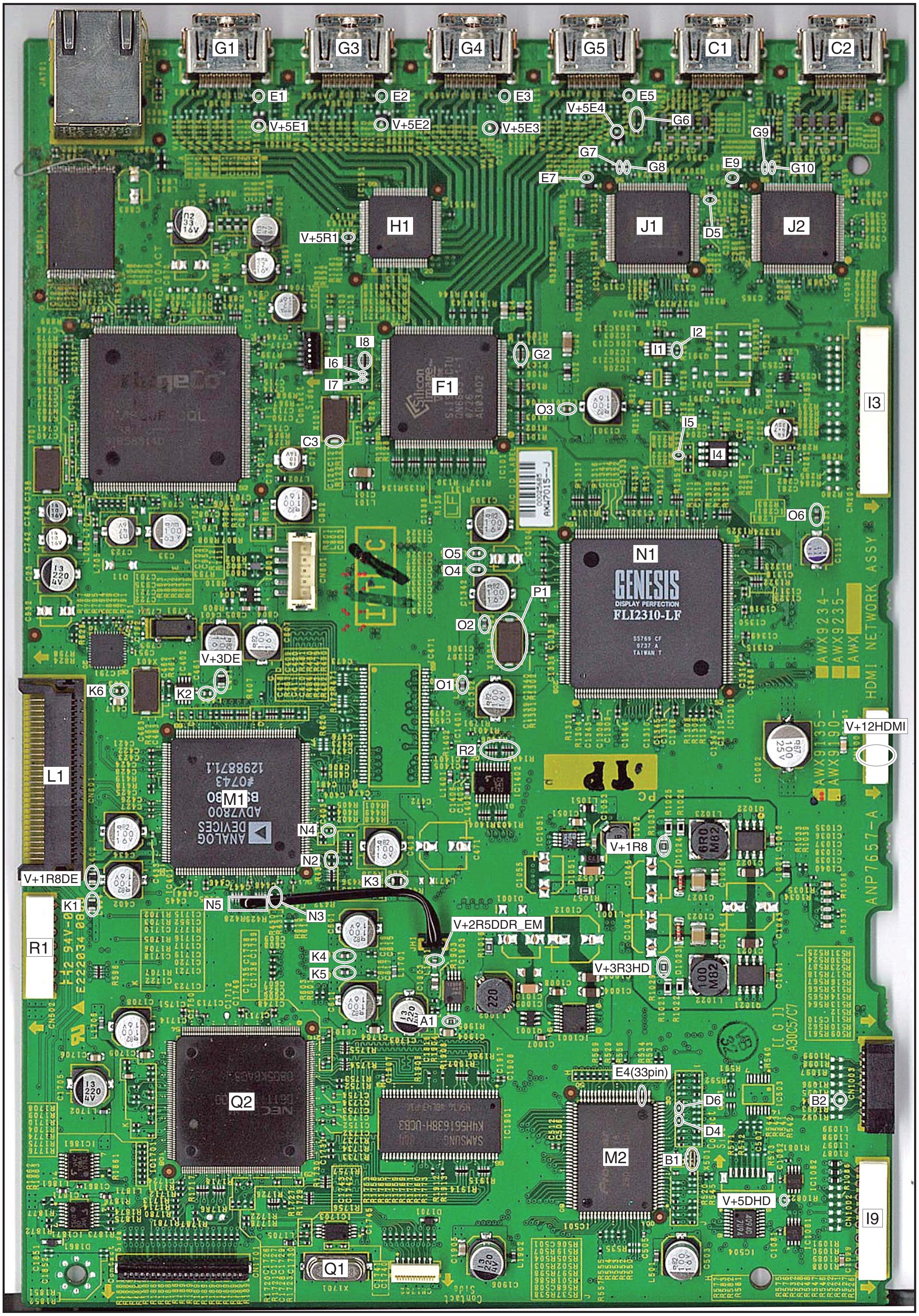

Step 6-1: Power supply
L1702
1.5 V (Scaler)
V+1R5HD
Is the voltage 1.5 V?
No
Check the L1702.
No
Replace IC1702 or L1702.
Yes
L1703
1.5 V (Scaler)
V+1R5HD
Is the voltage 1.5 V?
No
Check the IC1702.
No
Replace IC1702 or L1703.
Yes
L1902
2.5 V (Scaler)
V+2R5DDR_EM
Is the voltage 2.5 V?
No
Check the IC1902.
No
Replace IC1902 or L1902.
Yes
L1701
3.3 V (Scaler)
V+3R3HD
Is the voltage 3.3 V?
No
Check the IC1051.
No
Replace IC1051 or L1701.
Yes
L1706
3.3 V (Scaler)
V+3R3HD
Is the voltage 3.3 V?
No
Check the IC1051.
No
Replace IC1051 or L1701.
Yes
Step 6-2: X'tal, Reset
X1701
X'tal
Q1
Is oscillation of 27.0 MHz ?
No
Check the X1701.
No
Replace X1701 or IC1703.
Yes
IC1701(Pin 143)
RSTSWB
Q2
Is the voltage "H"(3.3 V)?
No
Check the CN1701 (Pin 6).
No
Diagnosis the D-MOTHER ASSY.
Yes
Step 6-3: Control
IC1701(Pin 114)
EMMA SCK
Q2
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the CN1701 (Pin 7).
No
Diagnosis the D-MOTHER ASSY.
Yes
IC1701(Pin 113)
EMMA SI
Q2
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the CN1701 (Pin 8).
No
Diagnosis the D-MOTHER ASSY.
Yes
IC1701(Pin 112)
EMMA SO
Q2
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the CN1701 (Pin 9).
No
Diagnosis the D-MOTHER ASSY.
Yes
IC1701(Pin 111)
EMMA REQI
Q2
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the CN1701 (Pin 10).
No
Diagnosis the D-MOTHER ASSY.
Yes
IC1701(Pin 133)
EMMA REQO
Q2
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the CN1701 (Pin 11).
No
Diagnosis the D-MOTHER ASSY.
Yes
J


J
Step 6-4: OUTPUT
IC1701(Pin 129)
GUICK
Q2
Is there a CLK?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
IC1701(Pins 119-122, 124,126-128)
GUID0 - D7
Q2
Is there a DATA?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
Step 6-5-1: Analog Output (For ZONE2)
* CN6004 is on COMPONENT ASSY.
CN6004(Pin 13)
ZONE COMPOSITE OUT
R1
Is there a composite signal?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
SC-07 only
CN6009(Pin 30)
ZONE COMPONENT Y
L1
Is there a Y signal?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
CN6009(Pin 28)
ZONE COMPONENT Cb
L2
Is there a Pb signal?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
CN6009(Pin 26)
ZONE COMPONENT Cr
L3
Is there a Pr signal?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
Diagnose the COMPONENT ASSY.
Step 6-5-2: Digital Output (MAIN) [No Scaler]
R1402
LLC
M2
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the IC1401.
No
Replace IC1401.
Yes
R1405,R1406(Pins 5-8)
P22-P29
R2
Is there a DATA?
No
Replace IC1402.
Yes
End

1) HDMI NETWORK Assy check points

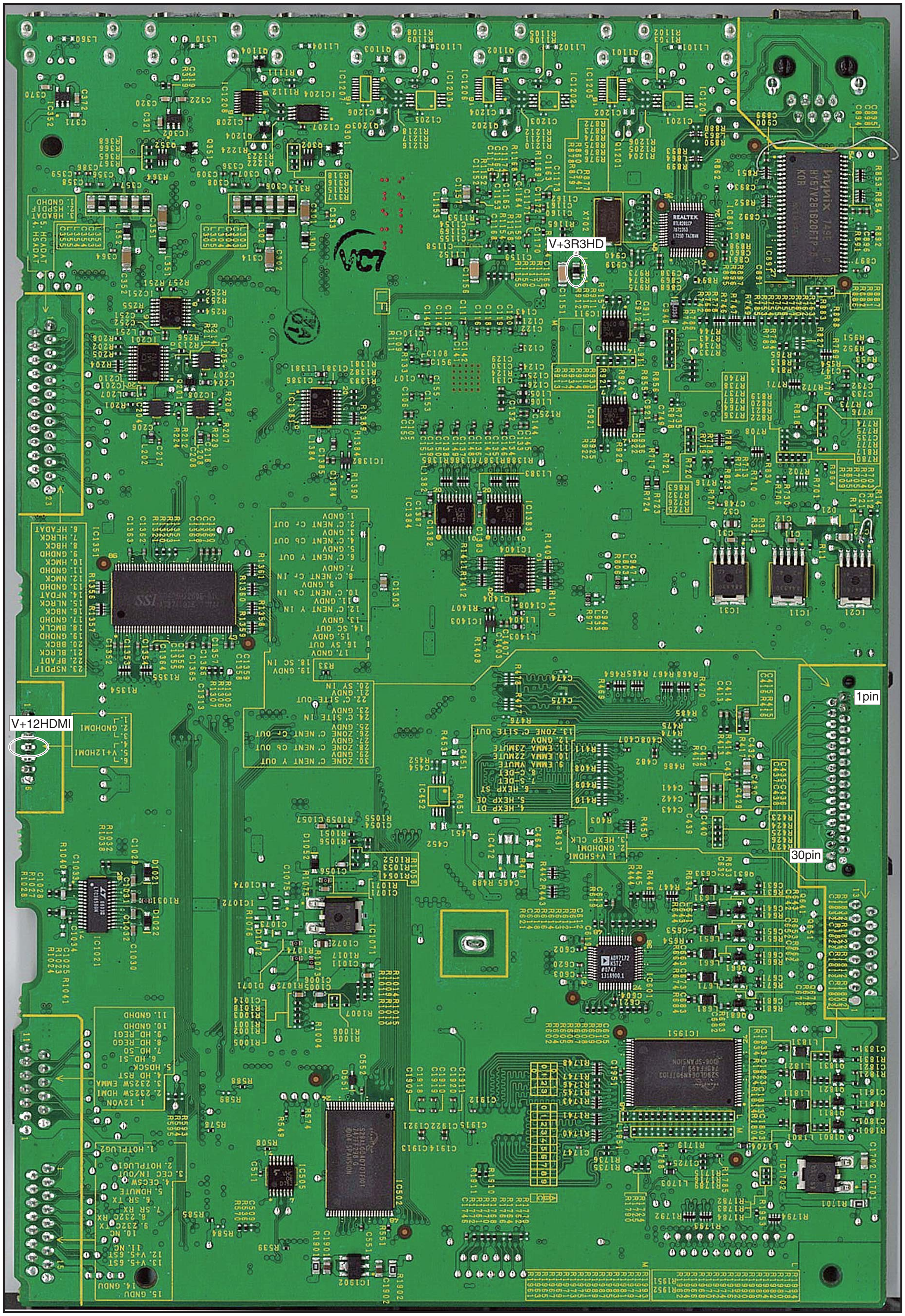
E HDMI NETWORK ASSY

SIDE A


G1
G3
G4
G5
C1
C2
E1
E2
E3
E5
V+5E4
G6
V+5E1
V+5E2
V+5E3
G9
G7
G8
E9
G10
E7
H1
J1
J2
V+5R1
D5
I2
G2
I8
I1
I6
I7
F1
I3
O3
I5
C3
I4
O6
N1
O5
O4
P1
O2
V+3DE
O1
K6
K2
V+12HDMI
R2
L1
M1
N4
V+1R8
N2
V+1R8DE
K3
K1
N5
N3
V+2R5DDR_EM
R1
K4
V+3R3HD
K5
A1
E4(33pin)
D6
B2
Q2
D4
M2
B1
V+5DHD
I9
Q1

E HDMI NETWORK ASSY

SIDE B


V+3R3HD
V+12HDMI
1pin
30pin

[4] Diagnosis of The Network Block

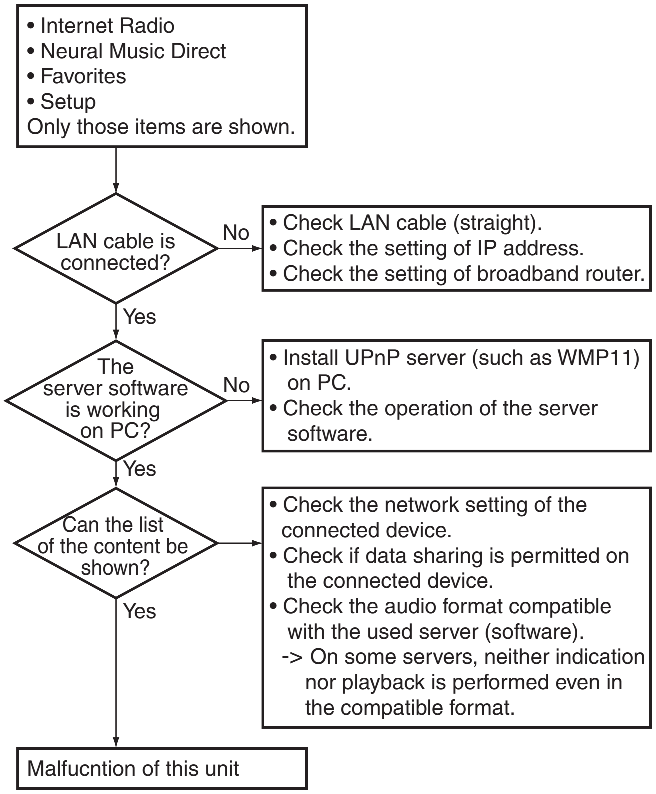
1) Constitution of network function

CD --- ..... -- HDMI4 ---- HOME MEDIA GALLERY -- XM RADIO

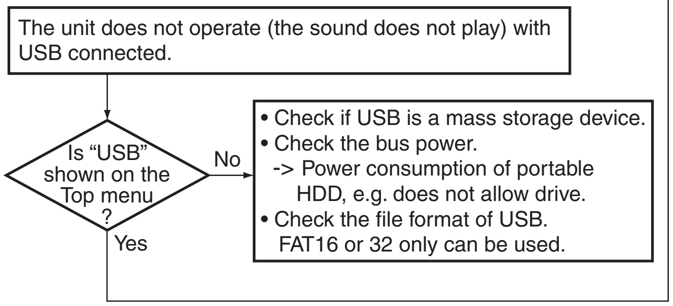
- USB or iPod
- Internet Radio
- Neural Music Direct -> Internet radio run by Neural
- Server1
- Server2
- Server3
- Favorites
- Setup
    - Information
        - Firmware Version -> Indicates the version of the firmware.
        - MAC Address -> Indicates MAC Address.
        - IP Address -> Indicates IP Address.
        - Gateway IP -> Indicates Gateway IP.
        - Proxy Server -> Indicates if Proxy Server is valid or invalid.
        - Subnet Mask -> Indicates Subnet Mask.
    - Network Setup

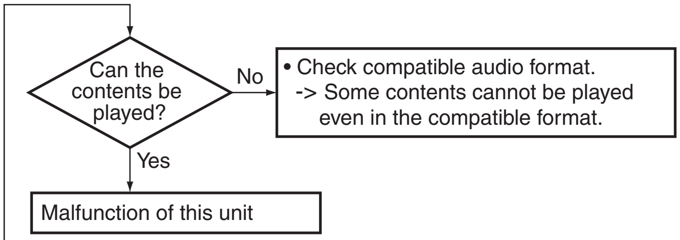
2) Flow chart for isolation of network malfunction

<Network connection>

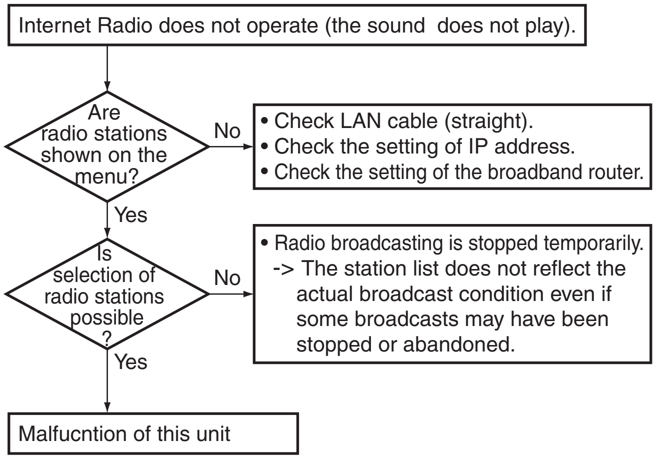

• Internet Radio
• Neural Music Direct
• Favorites
• Setup
Only those items are shown.
LAN cable is connected?
No
• Check LAN cable (straight).
• Check the setting of IP address.
• Check the setting of broadband router.
Yes
The server software is working on PC?
No
• Install UPnP server (such as WMP11) on PC.
• Check the operation of the server software.
Yes
Can the list of the content be shown?
• Check the network setting of the connected device.
• Check if data sharing is permitted on the connected device.
• Check the audio format compatible with the used server (software).
-> On some servers, neither indication nor playback is performed even in the compatible format.
Yes
Malfucntion of this unit

<USB connection>

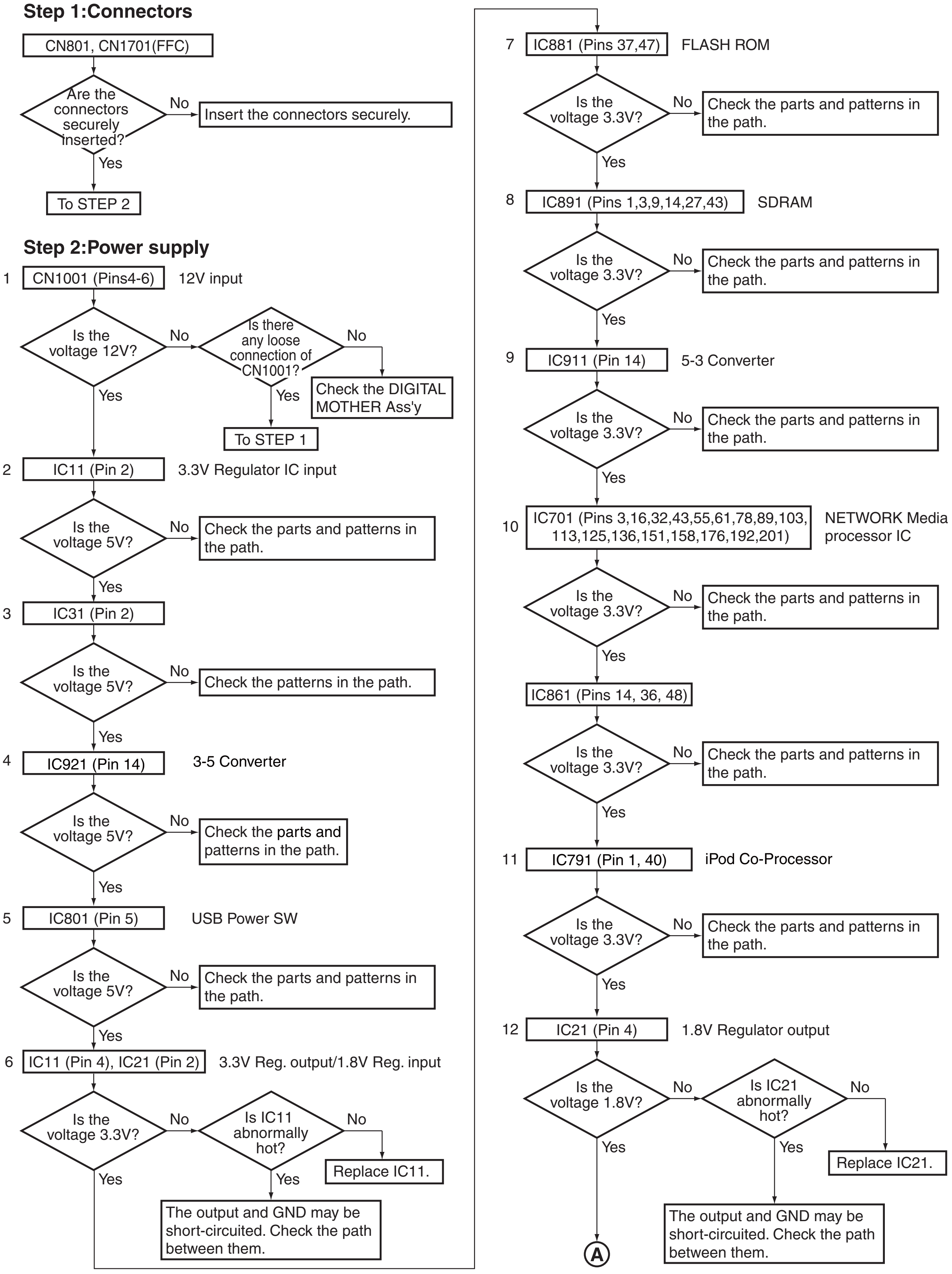

The unit does not operate (the sound does not play) with USB connected.
Is "USB" shown on the Top menu ?
No
• Check if USB is a mass storage device.
• Check the bus power.
-> Power consumption of portable HDD, e.g. does not allow drive.
• Check the file format of USB.
FAT16 or 32 only can be used.
Yes

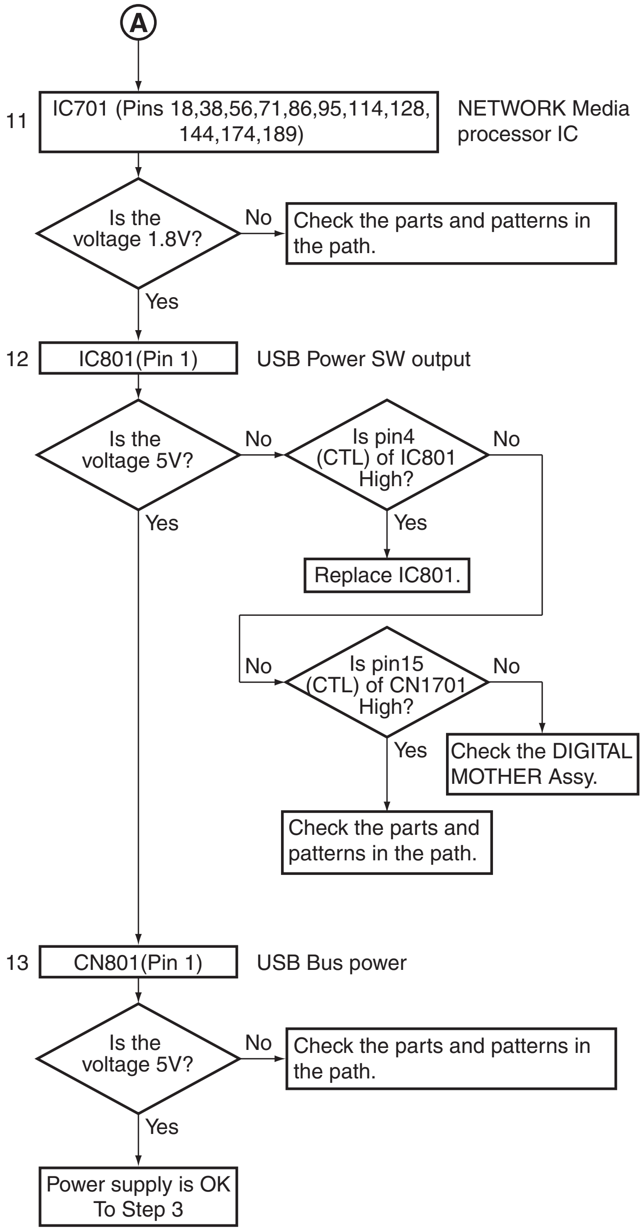

Can the contents be played?
No
• Check compatible audio format.
-> Some contents cannot be played even in the compatible format.
Yes
Malfunction of this unit

<Internet Radio connection>
(Neural Music Direct is the same.)


Internet Radio does not operate (the sound does not play).
Are radio stations shown on the menu?
No
• Check LAN cable (straight).
• Check the setting of IP address.
• Check the setting of the broadband router.
Yes
Is selection of radio stations possible ?
No
• Radio broadcasting is stopped temporarily.
-> The station list does not reflect the actual broadcast condition even if some broadcasts may have been stopped or abandoned.
Yes
Malfucntion of this unit

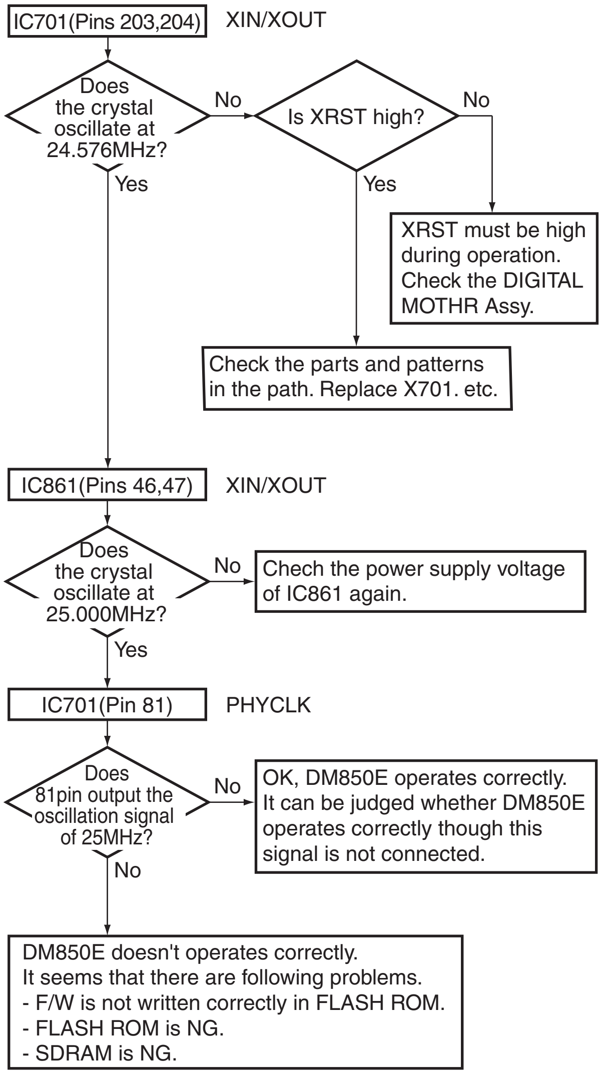
3) Network block troubleshooting


Step 1:Connectors
CN801, CN1701(FFC)
Are the connectors securely inserted?
No
Insert the connectors securely.
Yes
To STEP 2
Step 2:Power supply
1
CN1001 (Pins4-6)
12V input
Is the voltage 12V?
No
Is there any loose connection of CN1001?
No
Check the DIGITAL MOTHER Ass'y
Yes
To STEP 1
Yes
2
IC11 (Pin 2)
3.3V Regulator IC input
Is the voltage 5V?
No
Check the parts and patterns in the path.
Yes
3
IC31 (Pin 2)
Is the voltage 5V?
No
Check the patterns in the path.
Yes
4
IC921 (Pin 14)
3-5 Converter
Is the voltage 5V?
No
Check the parts and patterns in the path.
Yes
5
IC801 (Pin 5)
USB Power SW
Is the voltage 5V?
No
Check the parts and patterns in the path.
Yes
6
IC11 (Pin 4), IC21 (Pin 2)
3.3V Reg. output/1.8V Reg. input
Is the voltage 3.3V?
No
Is IC11 abnormally hot?
No
Replace IC11.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
7
IC881 (Pins 37,47)
FLASH ROM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
8
IC891 (Pins 1,3,9,14,27,43)
SDRAM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
9
IC911 (Pin 14)
5-3 Converter
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
10
IC701 (Pins 3,16,32,43,55,61,78,89,103, 113,125,136,151,158,176,192,201)
NETWORK Media processor IC
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
IC861 (Pins 14, 36, 48)
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
11
IC791 (Pin 1, 40)
iPod Co-Processor
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
12
IC21 (Pin 4)
1.8V Regulator output
Is the voltage 1.8V?
No
Is IC21 abnormally hot?
No
Replace IC21.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
A


A
11
IC701 (Pins 18,38,56,71,86,95,114,128, 144,174,189)
NETWORK Media processor IC
Is the voltage 1.8V?
No
Check the parts and patterns in the path.
Yes
12
IC801(Pin 1)
USB Power SW output
Is the voltage 5V?
No
Is pin4 (CTL) of IC801 High?
No
Yes
Yes
Replace IC801.
No
Is pin15 (CTL) of CN1701 High?
No
Yes
Check the DIGITAL MOTHER Assy.
Check the parts and patterns in the path.
13
CN801(Pin 1)
USB Bus power
Is the voltage 5V?
No
Check the parts and patterns in the path.
Yes
Power supply is OK To Step 3

Step 3:Operation of Network Media processor IC

*Please confirm it with the USB memory connected for the content.


IC701(Pins 203,204)
XIN/XOUT
Does the crystal oscillate at 24.576MHz?
No
Is XRST high?
No
Yes
Yes
XRST must be high during operation. Check the DIGITAL MOTHR Assy.
Check the parts and patterns in the path. Replace X701. etc.
IC861(Pins 46,47)
XIN/XOUT
Does the crystal oscillate at 25.000MHz?
No
Chech the power supply voltage of IC861 again.
Yes
IC701(Pin 81)
PHYCLK
Does 81pin output the oscillation signal of 25MHz?
No
OK, DM850E operates correctly. It can be judged whether DM850E operates correctly though this signal is not connected.
No
DM850E doesn't operates correctly.
It seems that there are following problems.
- F/W is not written correctly in FLASH ROM.
- FLASH ROM is NG.
- SDRAM is NG.

Step 4 : Communication between DM850E and System CPU

The signal shown by following fig are communication line of DM850E and main CPU(IC2001).
Confirm the connection of the signals along these routes.

fig. 1

	CN901	IC911 (5V -> 3V)		IC701
XRST	Pin 12	Pin 12	Pin 11	Pin 190
SPI CS	Pin 21	Pin 2	Pin 3	Pin 143
SPI CLK3	Pin 14	Pin 5	Pin 6	Pin 141
SPI MOSI	Pin 18	Pin 9	Pin 8	Pin 147

fig. 2

	IC701	IC921 (3V -> 5V)		CN901
SPI MISO	Pin 146	Pin 9	Pin 8	Pin 19
SPI REQ3	Pin 100	Pin 5	Pin 6	Pin 20

Step 5 :Communication between DM850E and System CPU

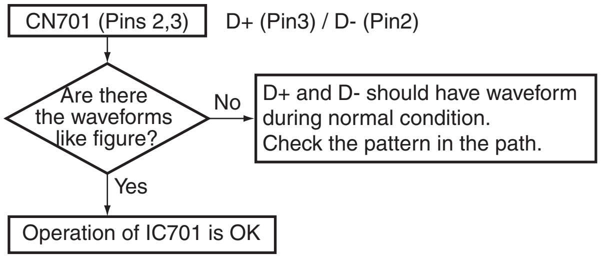
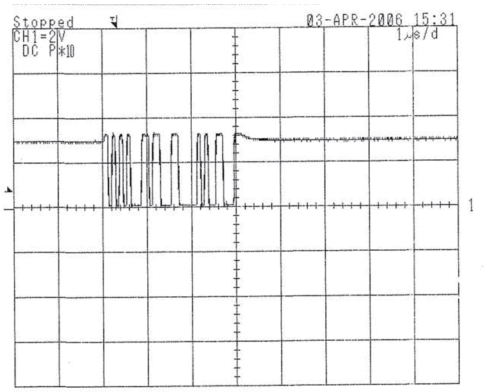
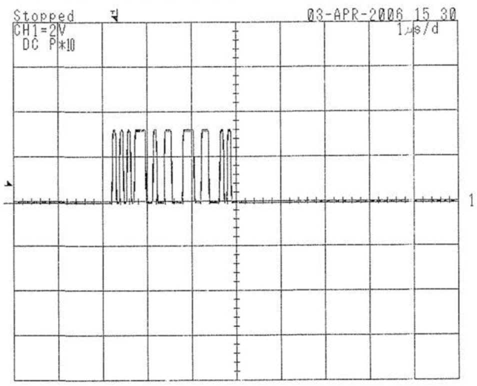

CN701 (Pins 2,3)
D+ (Pin3) / D- (Pin2)
Are there the waveforms like figure?
No
D+ and D- should have waveform during normal condition.
Check the pattern in the path.
Yes
Operation of IC701 is OK

fig. : D+



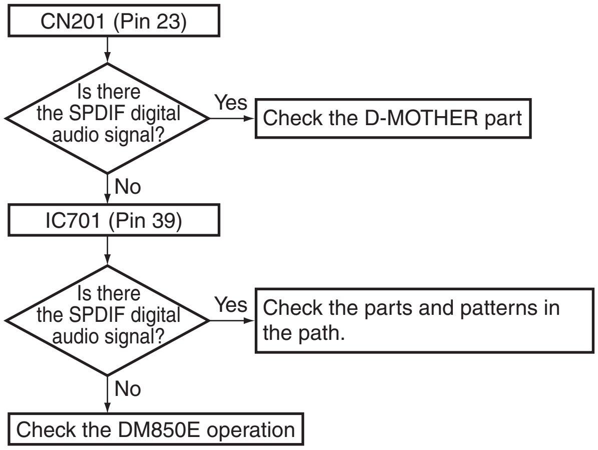
X : 1usec/div, Y : 2V/div

fig. : D-

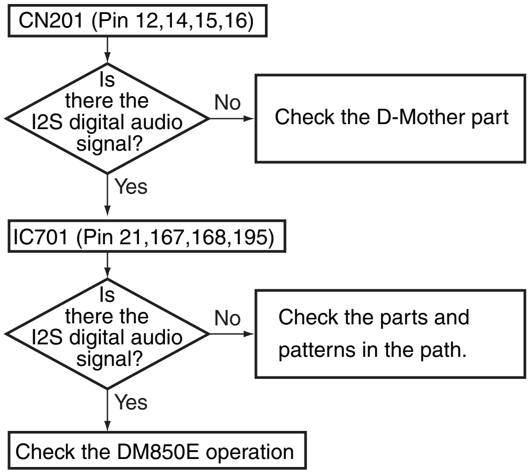


X : 1usec/div, Y : 2V/div

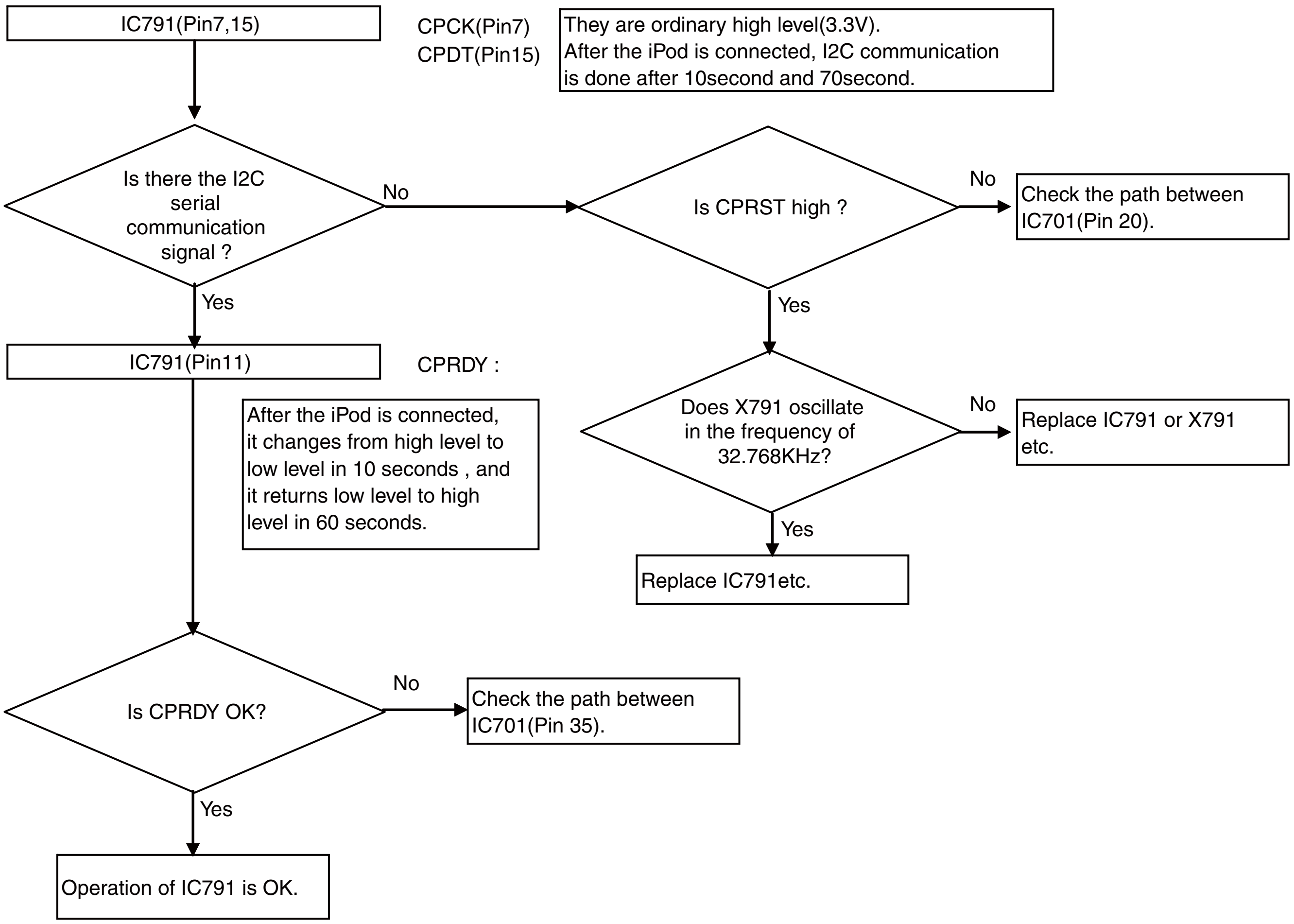
Step 6 : Audio Output


CN201 (Pin 23)
Is there the SPDIF digital audio signal?
Yes
Check the D-MOTHER part
No
IC701 (Pin 39)
Is there the SPDIF digital audio signal?
Yes
Check the parts and patterns in the path.
No
Check the DM850E operation

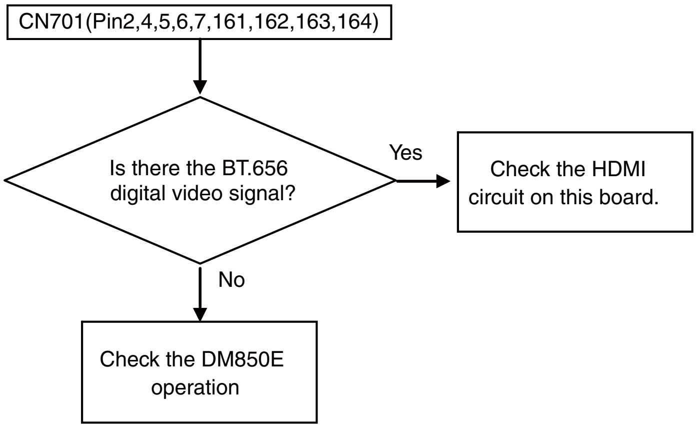
Step 7 : Audio Output (Zone2)


CN201 (Pin 12,14,15,16)
Is there the I2S digital audio signal?
No
Check the D-Mother part
Yes
IC701 (Pin 21,167,168,195)
Is there the I2S digital audio signal?
No
Check the parts and patterns in the path.
Yes
Check the DM850E operation

Step 8 : Communication between DM850E and iPod Co-Processor


IC791(Pin7,15)
CPCK(Pin7)
CPDT(Pin15)
They are ordinary high level(3.3V).
After the iPod is connected, I2C communication is done after 10second and 70second.
Is there the I2C serial communication signal ?
No
Is CPRST high ?
No
Check the path between IC701(Pin 20).
Yes
Yes
IC791(Pin11)
CPRDY :
After the iPod is connected, it changes from high level to low level in 10 seconds , and it returns low level to high level in 60 seconds.
Does X791 oscillate in the frequency of 32.768KHz?
No
Replace IC791 or X791 etc.
Yes
Replace IC791etc.
Is CPRDY OK?
No
Check the path between IC701(Pin 35).
Yes
Operation of IC791 is OK.

Step 9 : Photo Image Output


CN701(Pin2,4,5,6,7,161,162,163,164)
Is there the BT.656 digital video signal?
Yes
Check the HDMI circuit on this board.
No
Check the DM850E operation

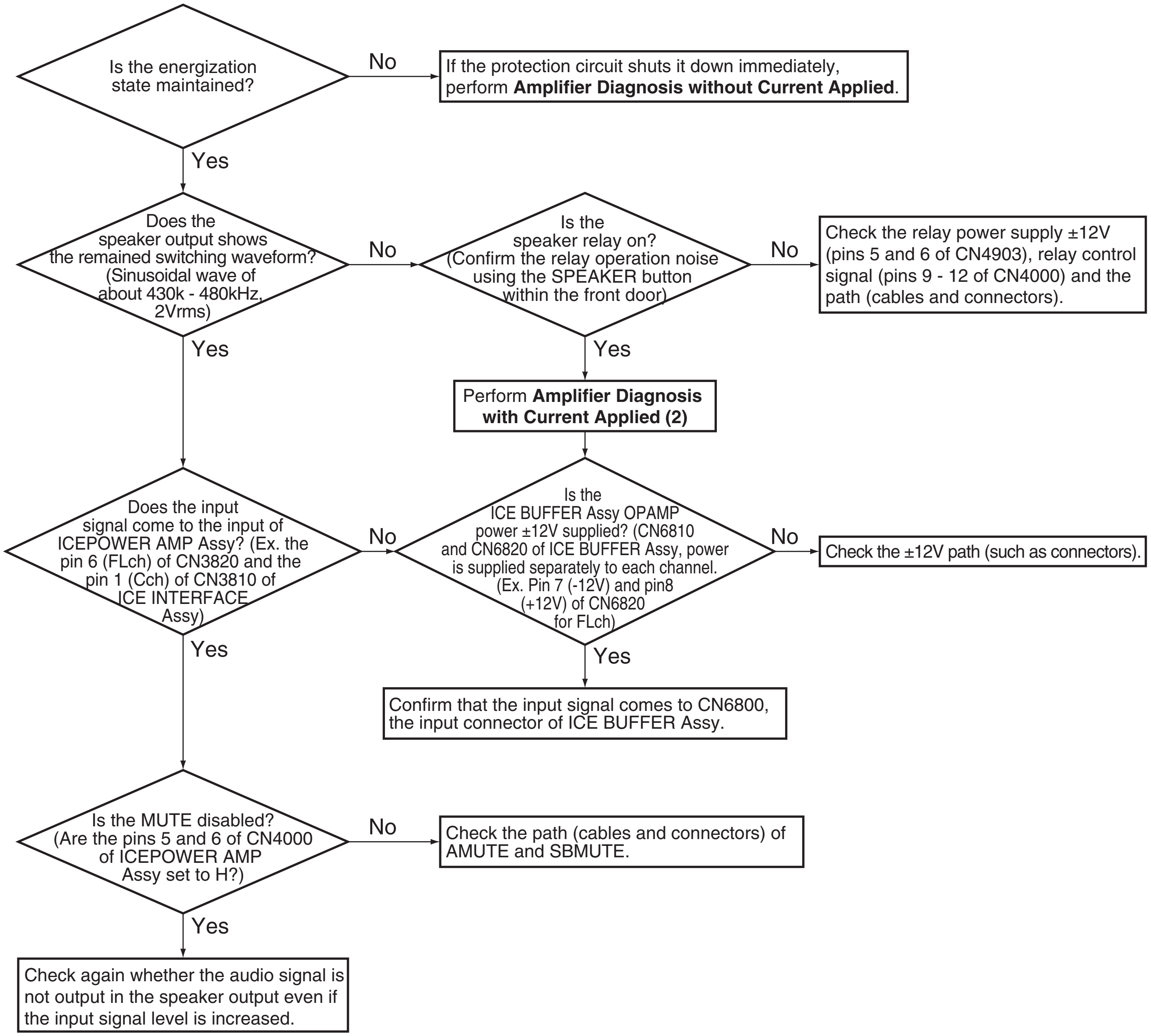
[5] Power Amp Section Troubleshooting

In the speaker output, the sinusoidal wave of about 430k - 480 kHz 2Vrms (when immediately after the current is applied with no signal/no load; the switching frequency varies by the connected load, signal level and the energizing time) is always output.
It is the switching waveform (±64V square wave) in the output stage that has been attenuated through LPF.
If such remained waveform can be observed, it can be assumed that the amplifier is operating normally.

When a signal is input to the amplifier, the output signal of the speaker shows the waveform such that the remained switching waveform is superimposed onto the audio signal. Note that when the input signal level is extremely small, it may not be easy to confirm the audio element since it is buried in the remained switching waveform (approximately 2Vrms).

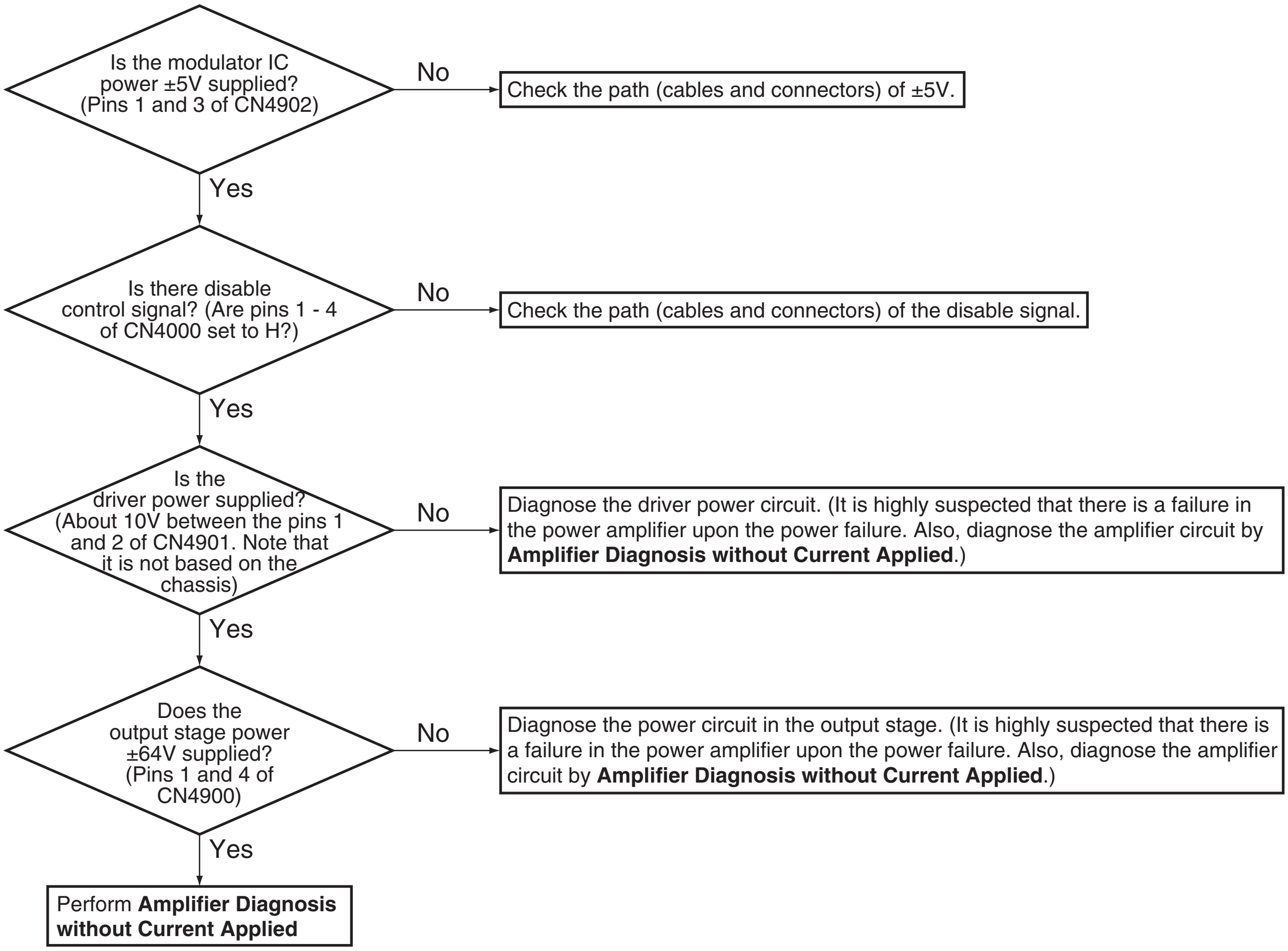
When no sound is produced with a specific function or sound mode, it is not caused by a failure in the power amplifier block. When there is a failure in the power amplifier block, no sound is produced with every function.
It is recommended to set the speaker setting to "LARGE" for all the channels and the function to "MULTI CH IN" when examining the power amplifier.

Amplifier Diagnosis with Current Applied (1)


Is the energization state maintained?
No
If the protection circuit shuts it down immediately, perform **Amplifier Diagnosis without Current Applied**.
Yes
Does the speaker output shows the remained switching waveform? (Sinusoidal wave of about 430k - 480kHz, 2Vrms)
No
Is the speaker relay on? (Confirm the relay operation noise using the SPEAKER button within the front door)
No
Check the relay power supply ±12V (pins 5 and 6 of CN4903), relay control signal (pins 9 - 12 of CN4000) and the path (cables and connectors).
Yes
Yes
Perform **Amplifier Diagnosis with Current Applied (2)**
Does the input signal come to the input of ICEPOWER AMP Assy? (Ex. the pin 6 (FLch) of CN3820 and the pin 1 (Cch) of CN3810 of ICE INTERFACE Assy)
No
Is the ICE BUFFER Assy OPAMP power ±12V supplied? (CN6810 and CN6820 of ICE BUFFER Assy, power is supplied separately to each channel. (Ex. Pin 7 (-12V) and pin8 (+12V) of CN6820 for FLch)
No
Check the ±12V path (such as connectors).
Yes
Yes
Confirm that the input signal comes to CN6800, the input connector of ICE BUFFER Assy.
Is the MUTE disabled? (Are the pins 5 and 6 of CN4000 of ICEPOWER AMP Assy set to H?)
No
Check the path (cables and connectors) of AMUTE and SBMUTE.
Yes
Check again whether the audio signal is not output in the speaker output even if the input signal level is increased.

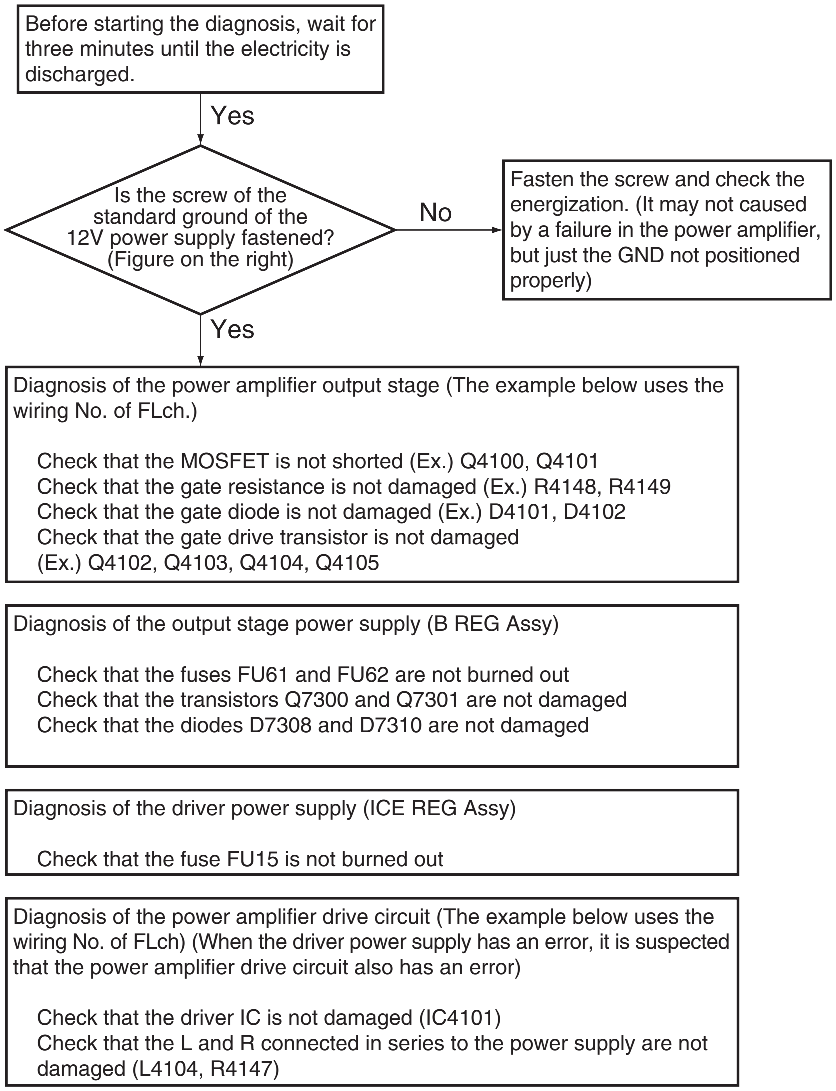
Amplifier Diagnosis with Current Applied (2)

When the remained switching waveform is not observed in the speaker output, the amplifier is not operating.
Here, confirm that the power and signal necessary for the amplifier to operate are supplied.


Is the modulator IC power ±5V supplied? (Pins 1 and 3 of CN4902)
No
Check the path (cables and connectors) of ±5V.
Yes
Is there disable control signal? (Are pins 1 - 4 of CN4000 set to H?)
No
Check the path (cables and connectors) of the disable signal.
Yes
Is the driver power supplied? (About 10V between the pins 1 and 2 of CN4901. Note that it is not based on the chassis)
No
Diagnose the driver power circuit. (It is highly suspected that there is a failure in the power amplifier upon the power failure. Also, diagnose the amplifier circuit by Amplifier Diagnosis without Current Applied.)
Yes
Does the output stage power ±64V supplied? (Pins 1 and 4 of CN4900)
No
Diagnose the power circuit in the output stage. (It is highly suspected that there is a failure in the power amplifier upon the power failure. Also, diagnose the amplifier circuit by Amplifier Diagnosis without Current Applied.)
Yes
Perform Amplifier Diagnosis without Current Applied

Amplifier Diagnosis without Current Applied

The most common symptom of the power amplifier failure is the destruction of the power amplifier output stage or the power amplifier power circuit due to the heavy load, which is, for example, caused by short of the speaker terminal or the use of the non-guaranteed low impedance speaker.
If the protection circuit immediately shuts it down immediately after the current is applied, it is highly likely that it is the above symptom.
The procedure to diagnose/repair without applying current is shown below.



Before starting the diagnosis, wait for three minutes until the electricity is discharged.

Is the screw of the standard ground of the 12V power supply fastened? (Figure on the right)

Fasten the screw and check the energization. (It may not caused by a failure in the power amplifier, but just the GND not positioned properly)

Diagnosis of the power amplifier output stage (The example below uses the wiring No. of FLch.)

Check that the MOSFET is not shorted (Ex.) Q4100, Q4101
Check that the gate resistance is not damaged (Ex.) R4148, R4149
Check that the gate diode is not damaged (Ex.) D4101, D4102
Check that the gate drive transistor is not damaged
(Ex.) Q4102, Q4103, Q4104, Q4105

Diagnosis of the output stage power supply (B REG Assy)

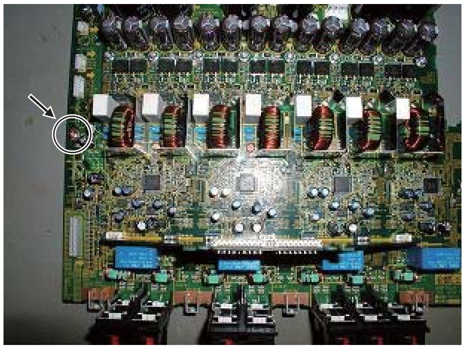
Check that the fuses FU61 and FU62 are not burned out
Check that the transistors Q7300 and Q7301 are not damaged
Check that the diodes D7308 and D7310 are not damaged

Diagnosis of the driver power supply (ICE REG Assy)

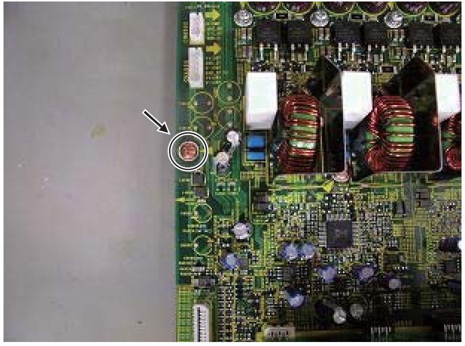
Check that the fuse FU15 is not burned out

Diagnosis of the power amplifier drive circuit (The example below uses the wiring No. of FLch) (When the driver power supply has an error, it is suspected that the power amplifier drive circuit also has an error)

Check that the driver IC is not damaged (IC4101)
Check that the L and R connected in series to the power supply are not damaged (L4104, R4147)



(Closeup)



[6] Diagnosis of The XM Radio

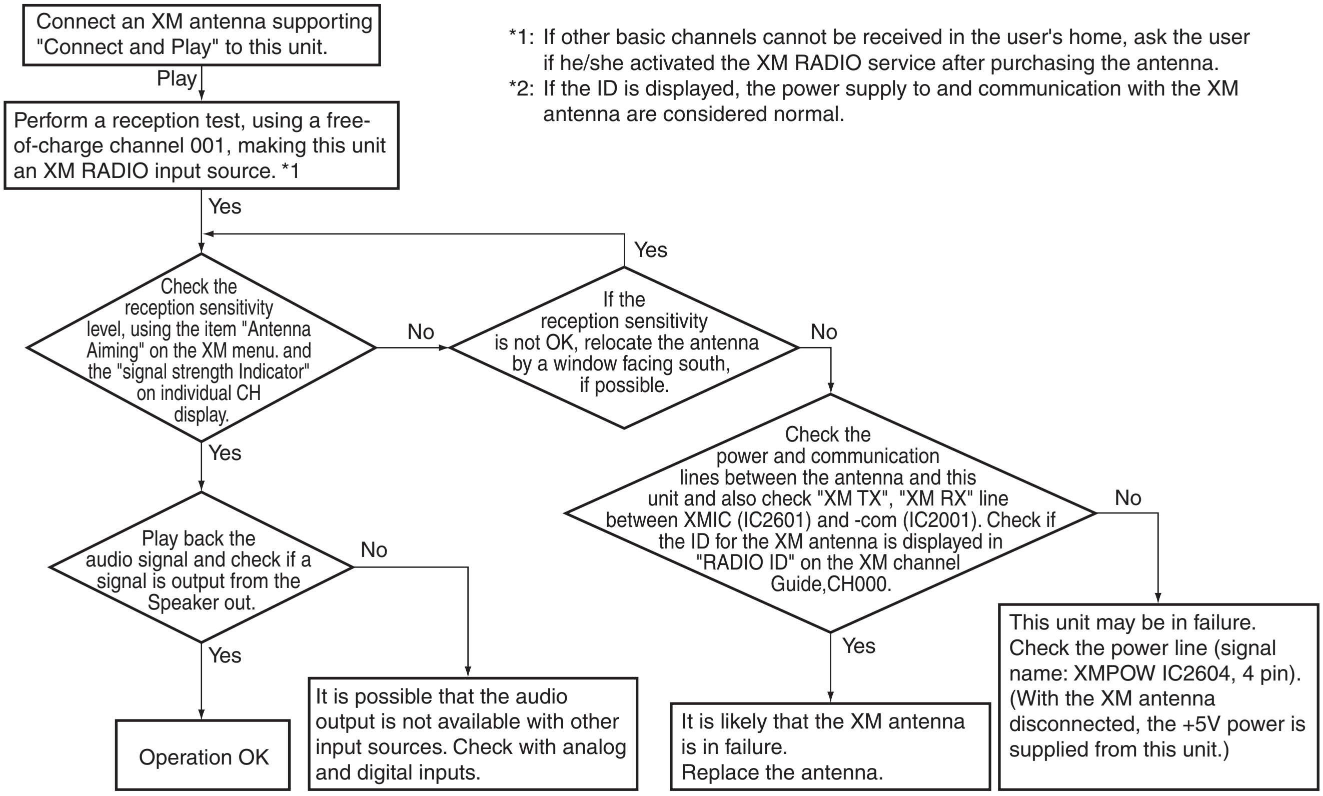
1) Products used for receiving XM Satellite Radio service

A commercially available "Connect and Play Antenna" can be used with this unit. To activate the XM RADIO service, it is necessary to receive a broadcast using your "Connect and Play Antenna."

2) About XM messages

Symptom	Cause	Measures
Check Antenna	An XM antenna is not connected.	Check whether the XM antenna cable is securely connected.
XM Power Error	A short-circuit is occurring in the XM antenna or the surrounding antenna cable.	Make sure that there is nothing unusual with the XM antenna or XM antenna cable. Turn the power off then back on.
Updating	The radio is being updated with the latest encryption code.	Wait until the encryption code is updated. Channels 00 and 01 should function normally.
No Signal	The XM signal is too weak at the current location.	
Loading	The unit is acquiring audio or program information.	Wait until the unit has received the information.
Off Air	The channel currently selected has stopped broadcasting.	Select another channel.
CH - - -	The user has selected a channel number that does not exist or is not subscribed to.	The receiver automatically switches to Channel 001 or a last-selected channel.
- - - - - - - -	There is no artist name/feature (song/program title), or channel category is associated with the channel.	No action needed.

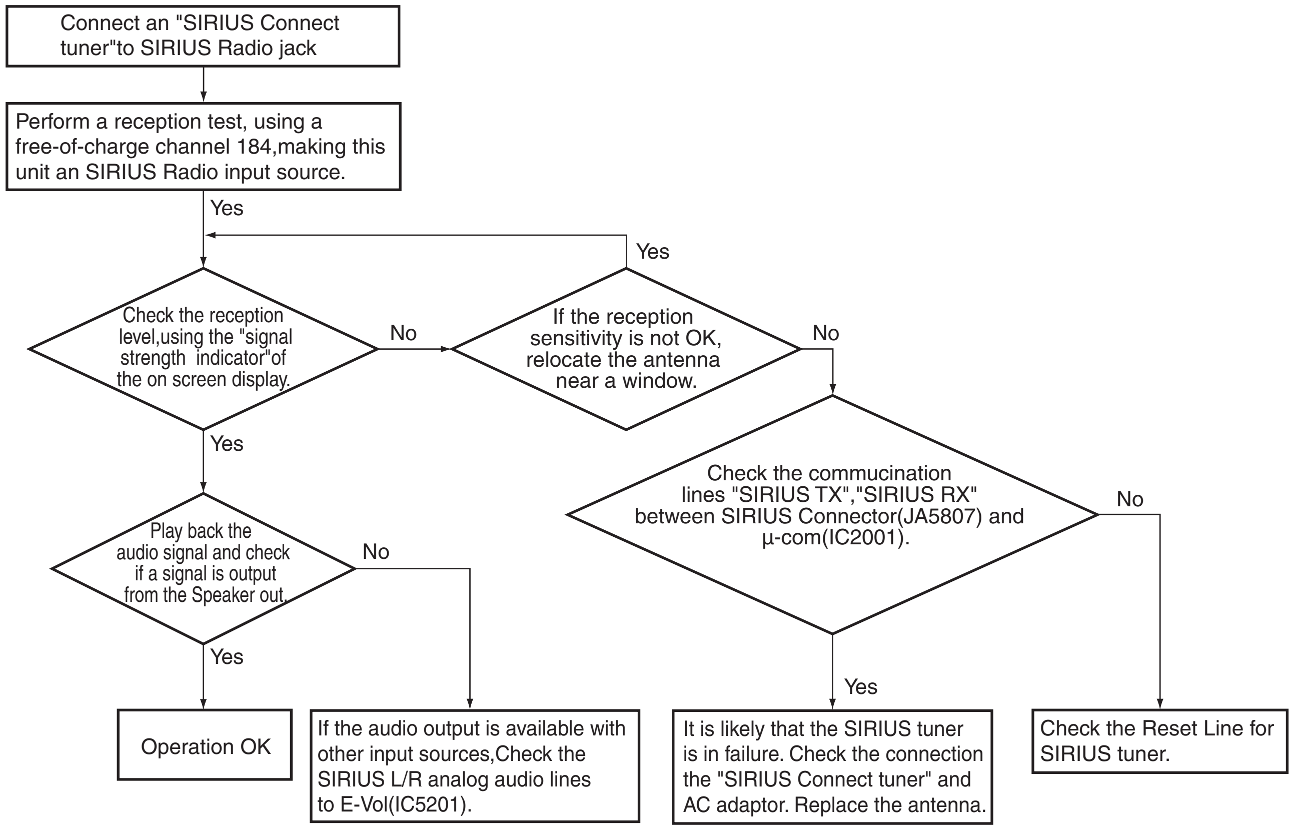
3) Operation check of XM RADIO function


Connect an XM antenna supporting "Connect and Play" to this unit.
Play
Perform a reception test, using a free-of-charge channel 001, making this unit an XM RADIO input source. *1
Yes
Check the reception sensitivity level, using the item "Antenna Aiming" on the XM menu. and the "signal strength Indicator" on individual CH display.
No
If the reception sensitivity is not OK, relocate the antenna by a window facing south, if possible.
Yes
No
Yes
Play back the audio signal and check if a signal is output from the Speaker out.
No
Yes
Operation OK
It is possible that the audio output is not available with other input sources. Check with analog and digital inputs.
Check the power and communication lines between the antenna and this unit and also check "XM TX", "XM RX" line between XMIC (IC2601) and -com (IC2001). Check if the ID for the XM antenna is displayed in "RADIO ID" on the XM channel Guide,CH000.
Yes
No
It is likely that the XM antenna is in failure. Replace the antenna.
This unit may be in failure. Check the power line (signal name: XMPOW IC2604, 4 pin). (With the XM antenna disconnected, the +5V power is supplied from this unit.)

*1: If other basic channels cannot be received in the user's home, ask the user if he/she activated the XM RADIO service after purchasing the antenna.
*2: If the ID is displayed, the power supply to and communication with the XM antenna are considered normal.

[7] Sirius Block Troubleshooting

Step 1 : Connectors


Connect an "SIRIUS Connect tuner"to SIRIUS Radio jack
Perform a reception test, using a free-of-charge channel 184,making this unit an SIRIUS Radio input source.
Yes
Yes
Check the reception level,using the "signal strength indicator"of the on screen display.
No
If the reception sensitivity is not OK, relocate the antenna near a window.
No
Yes
Check the commucination lines "SIRIUS TX","SIRIUS RX" between SIRIUS Connector(JA5807) and µ-com(IC2001).
No
Play back the audio signal and check if a signal is output from the Speaker out.
No
Yes
Yes
Operation OK
If the audio output is available with other input sources,Check the SIRIUS L/R analog audio lines to E-Vol(IC5201).
It is likely that the SIRIUS tuner is in failure. Check the connection the "SIRIUS Connect tuner" and AC adaptor. Replace the antenna.
Check the Reset Line for SIRIUS tuner.

SIRIUS radio messages

Symptom	Cause	Action
Antenna Error	Antenna is not properly connected.	Check that the antenna cable is attached securely.
Check Sirius Tuner	SIRIUS Connect tuner is not properly connected.	Check that the 8 pin mini DIN cable and AC Adapter are attached securely.
Acquiring Signal	The SIRIUS signal is too weak at the current location.	n/a
Subscription Updating	Unit is updating subscription.	Wait until the encryption code has been updated.
Updating Channels	Unit is updating channels.	Wait until the encryption code has been updated.
Invalid Channel	Selected channel is not available/does not exist.	Select another channel.

5.2 CIRCUIT DESCRIPTION

[1] Protection Circuit Process List

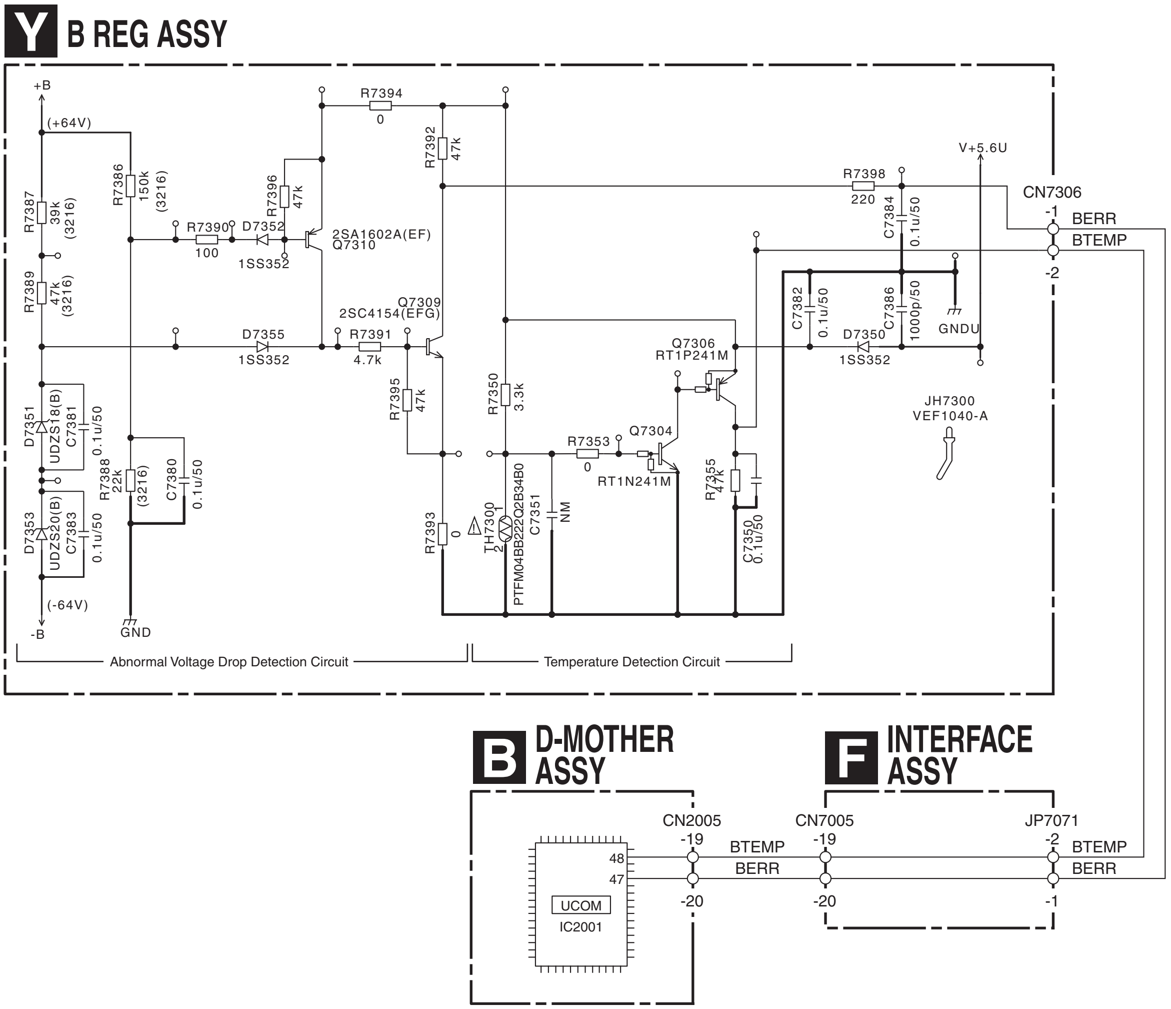
B REG Power Supply

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
B REG power supply overheat detection	Detects overheat of transistor(s) in B REG power supply circuit	Detects when posistor detection temperature exceeds 120°C and BTMP port becomes "H". (IC2001 48pin)	Flashes "OVERHEAT" indicator. Shuts down at continuation for more than 3 seconds. LED indicator continues blinking.	"OVERHEAT" and 3 second flashing. Blinks ICE blue LED indicator.	Recoverable by power-on
B REG power supply failure detection	Detect abnormal voltage drop when B REG transistor(s) becomes failure	Detects output voltage of B REG power cuicuit decreases below 38V and BERR port becomes "L". (IC2001 47pin)	Shuts down	Blinks MCACC LED	Unrecoverable

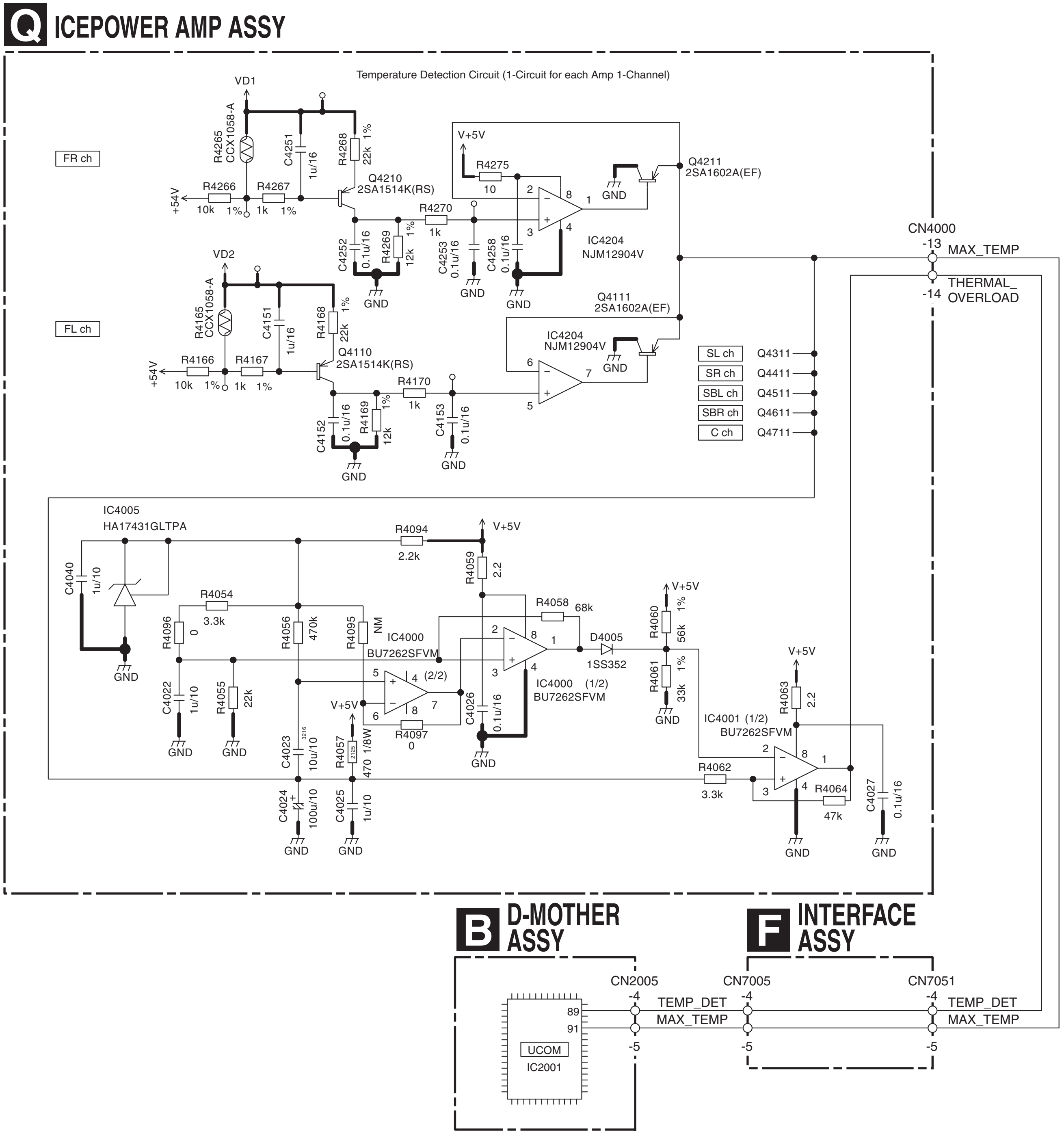
Amplifier Circuit

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
Overheat detection	Detects MOS FET temperature of amplifier output stage	Detects when TEMPERATURE PORT becomes "L" in case of the detecting temperature exceeds 95°C or rapid change by short cuicuit of speaker terminals. (IC2001 89pin)	Shuts down with FL indication of "AMP OVERHEAT". LED indicator continues blinking.	Indicates "AMP OVERHEAT". Blinks ICE blue LED indicator.	Recoverable by power-on
		Detects when MAXTEMP port becomes below 3.3V at NTC Thermistor detect circuit. (IC2001 91pin)	Fan rotates below 3.3V.		
DC detection	Detects DC of amplifier output (After LPF)	Detects when SP output exceeds DC ± 7V and DCERR port becomes "L". (IC2001 90pin)	Let MUTE on, Speater Relay off and shuts down 3 seconds after to blink MCACC LED.	Flashes "AMP ERR"indicator. Blinks MCACC LED	In case of detecting DC abnormality during power-on sequence after detecting DC. Unrecoverable
			Let MUTE on, Speater Relay off and shuts down 3 seconds after to blink ICE blue indicator.	Flashes "AMP ERR"indicator. Blinks ICE blue LED indicator.	In case of detecting DC abnormality during normal operation. Recoverable by power-on after 1 minute.
Fan abnormality detection	Detects a Fan not rotating by loose connector or Fan lock when controling the Fan rotation	Detects when FANDET port becomes "L". (IC2001 88pin)	Shuts down when abnormality continues for more than 3 seconds.	Flashes "FAN STOP"indicator. Blinks Digital Video Scaler LED	Recoverable by power-on
Sobel detection	Protects overcurrent by Sobel Resistance when high power output of higher frequency continued	Detects OLERR port becomes "L". (IC2001 17pin)	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Overcurrent detection	Protects overcurrent of MOS FET in output stage when overcurrent flows at the output stage	Detects OLERR port becomes "L". (IC2001 17pin)	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Low Voltage detection (Amplifier power supply)	Detects low voltage when amplifier power supply voltage (normally ± 64V) becomes below ± 42V	Detects OLERR port becomes "L". (IC2001 17pin) AMP_Overload DET	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Low Voltgae detection (Modulator IC)	Detects low voltage of modulator IC power supply (normally ± 5V) becomes below ± 2 - 3V	No micro-computer detection exists.	No micro-computer control but modulator IC stops by itself.		Recoverable by power-on

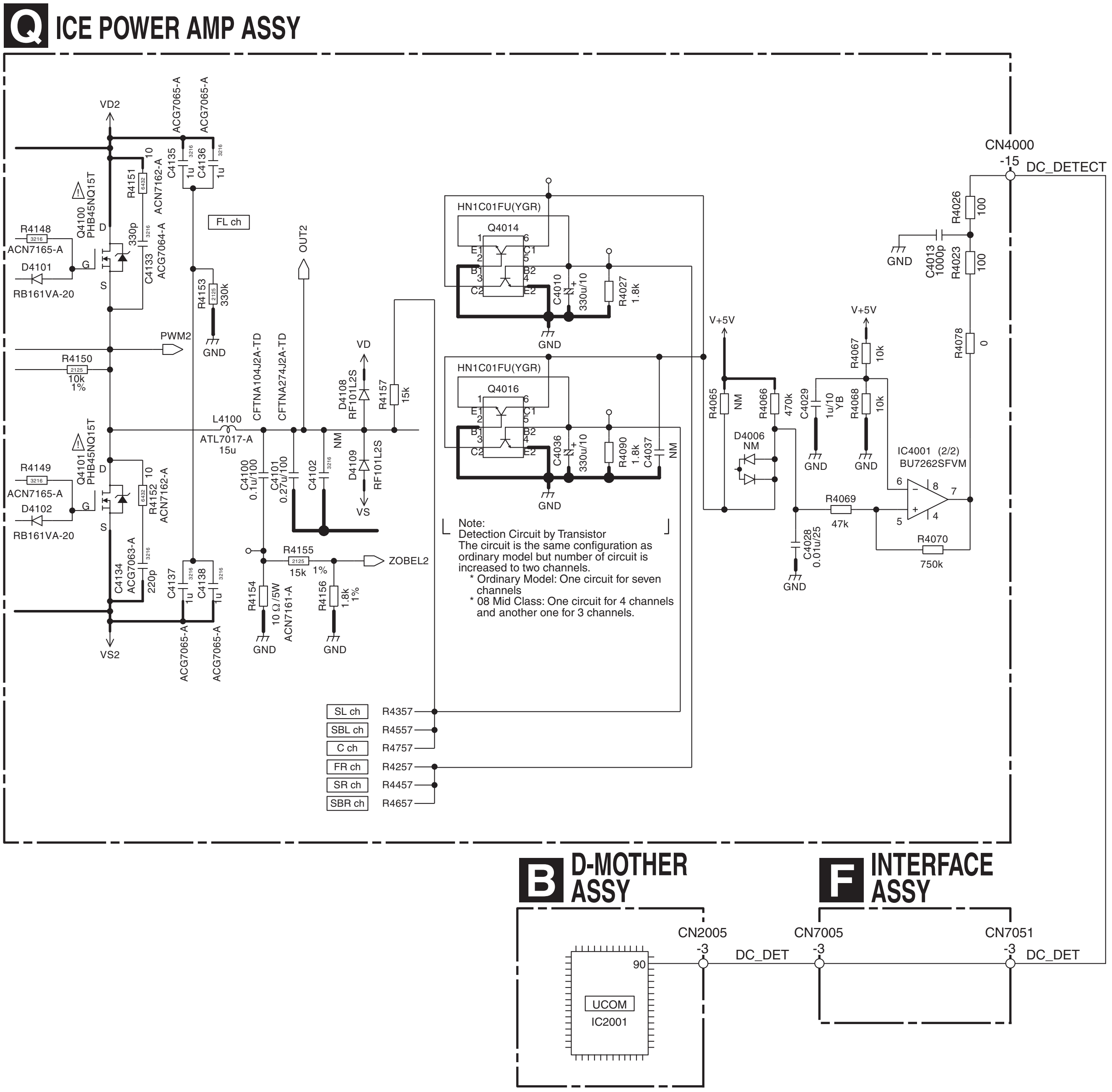
B REG Power Supply Overheat Detection
B REG Power Supply Failure Detection


Y B REG ASSY
+B
(+64V)
R7387 39k (3216)
R7389 47k (3216)
R7386 150k (3216)
R7390 100
D7352 1SS352
R7396 47k
2SA1602A(EF) Q7310
R7394 0
R7392 47k
R7398 220
V+5.6U
CN7306
-1 BERR
BTEMP
-2
C7384 0.1u/50
C7382 0.1u/50
C7386 1000p/50
GNDU
Q7309 2SC4154(EFG)
D7355 1SS352
R7391 4.7k
D7350 1SS352
Q7306 RT1P241M
JH7300 VEF1040-A
D7351 UDZS18(B)
C7381 0.1u/50
R7395 47k
R7350 3.3k
R7353 0
Q7304 RT1N241M
R7388 22k (3216)
C7380 0.1u/50
D7353 UDZS20(B)
C7383 0.1u/50
R7393 0
TH7300 PTFM04BB222Q2B34B0
C7351 NM
R7355 47k
C7350 0.1u/50
(-64V)
-B
GND
Abnormal Voltage Drop Detection Circuit
Temperature Detection Circuit
B D-MOTHER ASSY
F INTERFACE ASSY
CN2005
-19
-20
48
47
UCOM
IC2001
BTEMP
BERR
CN7005
-19
-20
JP7071
-2 BTEMP
BERR
-1

Overheat Detection

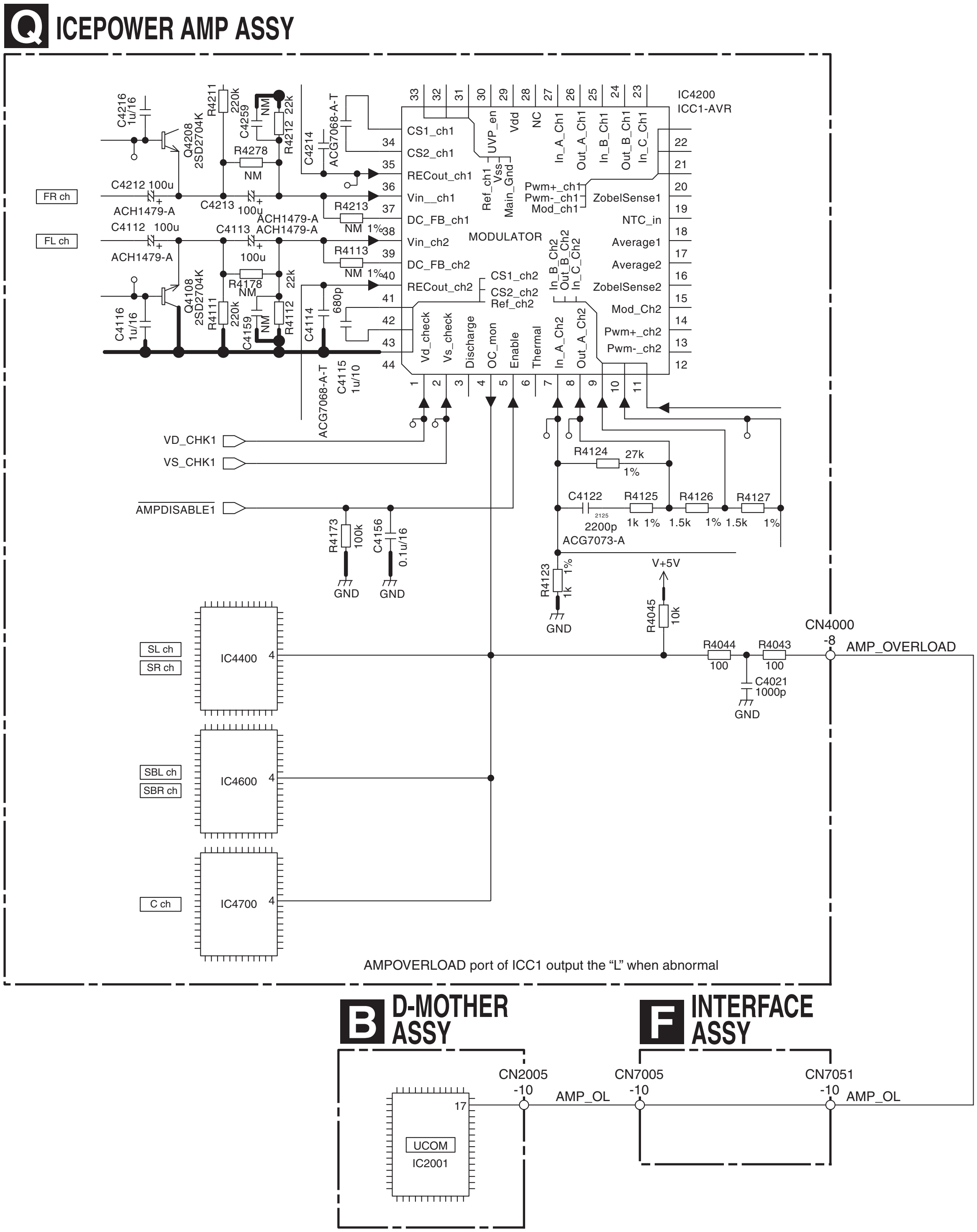

Q ICEPOWER AMP ASSY
Temperature Detection Circuit (1-Circuit for each Amp 1-Channel)
FR ch
VD1
R4265
CCX1058-A
C4251
1u/16
R4268
22k 1%
Q4210
2SA1514K(RS)
+54V
R4266
10k 1%
R4267
1k 1%
C4252
0.1u/16
R4269
12k 1%
R4270
1k
C4253
0.1u/16
C4258
0.1u/16
V+5V
R4275
10
IC4204
NJM12904V
Q4211
2SA1602A(EF)
GND
FL ch
VD2
R4165
CCX1058-A
C4151
1u/16
R4168
22k 1%
Q4110
2SA1514K(RS)
R4166
10k 1%
R4167
1k 1%
C4152
0.1u/16
R4169
12k 1%
R4170
1k
C4153
0.1u/16
Q4111
2SA1602A(EF)
SL ch Q4311
SR ch Q4411
SBL ch Q4511
SBR ch Q4611
C ch Q4711
CN4000
-13 MAX_TEMP
-14 THERMAL_ OVERLOAD
IC4005
HA17431GLTPA
C4040
1u/10
R4094
2.2k
R4059
2.2
R4054
3.3k
R4096
0
R4056
470k
R4095
NM
IC4000
BU7262SFVM
(2/2)
R4058
68k
D4005
1SS352
IC4000 (1/2)
BU7262SFVM
C4022
1u/10
R4055
22k
R4097
0
C4026
0.1u/16
R4060
56k 1%
R4061
33k 1%
R4063
2.2
IC4001 (1/2)
BU7262SFVM
C4023
10u/10
R4057
470 1/8W
R4062
3.3k
R4064
47k
C4027
0.1u/16
C4024
100u/10
C4025
1u/10
B D-MOTHER ASSY
CN2005
UCOM
IC2001
89
91
-4 TEMP_DET
MAX_TEMP
-5
F INTERFACE ASSY
CN7005
CN7051
-4 TEMP_DET
MAX_TEMP
-5

DC Detection


Q ICE POWER AMP ASSY
VD2
ACG7065-A
ACG7065-A
10
R4151
ACN7162-A
C4135
1u
C4136
1u
Q4100
PHB45NQ15T
R4148
ACN7165-A
D4101
RB161VA-20
330p
C4133
ACG7064-A
FL ch
OUT2
R4153
330k
GND
PWM2
R4150
10k
1%
L4100
ATL7017-A
15u
CFTNA104J2A-TD
CFTNA274J2A-TD
VD
D4108
RF101L2S
R4157
15k
NM
C4100
0.1u/100
C4101
0.27u/100
C4102
D4109
RF101L2S
VS
Q4101
PHB45NQ15T
R4149
ACN7165-A
D4102
RB161VA-20
R4152
ACN7162-A
C4134
ACG7063-A
220p
C4137
1u
C4138
1u
VS2
R4155
15k
1%
ZOBEL2
R4154
10 Ω /5W
ACN7161-A
R4156
1.8k
1%
GND
GND
HN1C01FU(YGR)
Q4014
C4010
330u/10
R4027
1.8k
GND
HN1C01FU(YGR)
Q4016
C4036
330u/10
R4090
1.8k
C4037
NM
GND
SL ch R4357
SBL ch R4557
C ch R4757
FR ch R4257
SR ch R4457
SBR ch R4657
V+5V
R4065
NM
R4066
470k
D4006
NM
C4028
0.01u/25
GND
V+5V
R4067
10k
C4029
1u/10
YB
R4068
10k
GND
GND
IC4001 (2/2)
BU7262SFVM
R4069
47k
R4070
750k
R4078
0
R4023
100
C4013
1000p
GND
R4026
100
CN4000
-15
DC_DETECT
B D-MOTHER ASSY
UCOM
IC2001
90
CN2005
-3
DC_DET
F INTERFACE ASSY
CN7005
-3
CN7051
-3
DC_DET

Note:
Detection Circuit by Transistor
The circuit is the same configuration as ordinary model but number of circuit is increased to two channels.
* Ordinary Model: One circuit for seven channels
* 08 Mid Class: One circuit for 4 channels and another one for 3 channels.

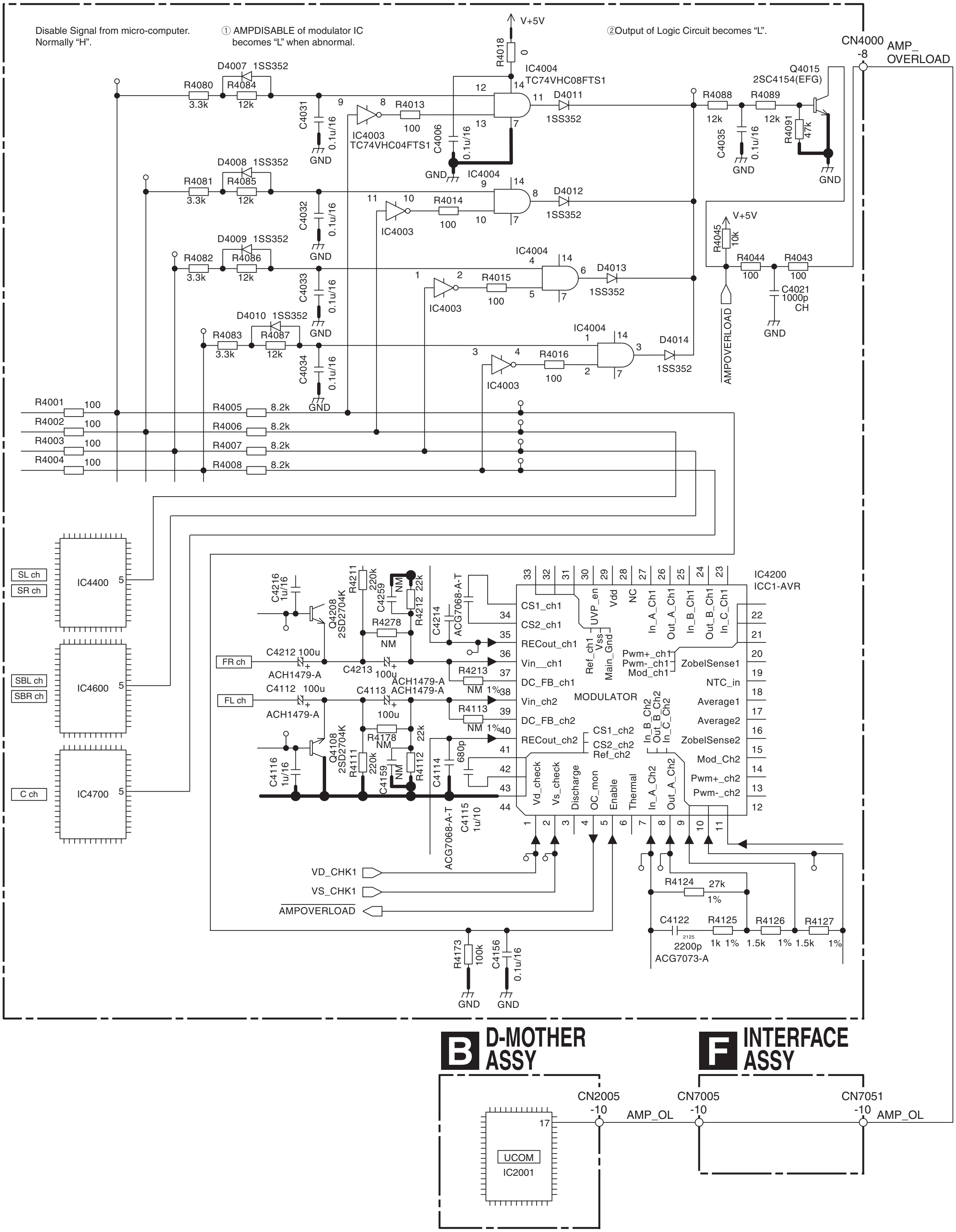
Sobel Detection
Over Current Detection of MOS FET in Output Stage


Q ICEPOWER AMP ASSY
IC4200
ICC1-AVR
MODULATOR
CS1_ch1
CS2_ch1
RECout_ch1
Vin__ch1
DC_FB_ch1
Vin_ch2
DC_FB_ch2
RECout_ch2
UVP_en
Vdd
NC
In_A_Ch1
Out_A_Ch1
In_B_Ch1
Out_B_Ch1
In_C_Ch1
Ref_ch1
Vss
Main_Gnd
Pwm+_ch1
Pwm-_ch1
Mod_ch1
ZobelSense1
NTC_in
Average1
Average2
ZobelSense2
Mod_Ch2
Pwm+_ch2
Pwm-_ch2
CS1_ch2
CS2_ch2
Ref_ch2
In_B_Ch2
Out_B_Ch2
In_C_Ch2
Vd_check
Vs_check
Discharge
OC_mon
Enable
Thermal
In_A_Ch2
Out_A_Ch2
FR ch
FL ch
C4216 1u/16
Q4208 2SD2704K
R4211 220k
C4259 NM
R4212 22k
R4278 NM
C4214
ACG7068-A-T
C4212 100u
ACH1479-A
C4213 100u
R4213 NM 1%
C4112 100u
C4113 ACH1479-A 100u
R4113 NM 1%
R4178 NM
Q4108 2SD2704K
R4111 220k
C4159 NM
R4112 22k
C4114 680p
C4116 1u/16
C4115 1u/10
VD_CHK1
VS_CHK1
AMPDISABLE1
R4173 100k
C4156 0.1u/16
GND
R4124 27k 1%
C4122 2200p ACG7073-A
R4125 1k 1%
R4126 1.5k 1%
R4127 1.5k 1%
R4123 1k 1%
V+5V
R4045 10k
R4044 100
R4043 100
C4021 1000p
CN4000 -8
AMP_OVERLOAD
SL ch
SR ch
IC4400
SBL ch
SBR ch
IC4600
C ch
IC4700
B D-MOTHER ASSY
UCOM
IC2001
CN2005 -10
AMP_OL
F INTERFACE ASSY
CN7005 -10
CN7051 -10
AMP_OL

AMPOVERLOAD port of ICC1 output the “L” when abnormal

Low Voltage Detection for Amplifier Power Supply

Q ICEPOWER AMP ASSY



Disable Signal from micro-computer.
Normally “H”.

① AMPDISABLE of modulator IC becomes “L” when abnormal.

②Output of Logic Circuit becomes “L”.

V+5V
R4018 0
IC4004 TC74VHC08FTS1
D4011 1SS352
D4012 1SS352
D4013 1SS352
D4014 1SS352
R4088 12k
R4089 12k
R4091 47k
C4035 0.1u/16
Q4015 2SC4154(EFG)
CN4000 -8 AMP_ OVERLOAD
D4007 1SS352
D4008 1SS352
D4009 1SS352
D4010 1SS352
R4080 3.3k
R4081 3.3k
R4082 3.3k
R4083 3.3k
R4084 12k
R4085 12k
R4086 12k
R4087 12k
C4031 0.1u/16
C4032 0.1u/16
C4033 0.1u/16
C4034 0.1u/16
C4006 0.1u/16
IC4003 TC74VHC04FTS1
R4013 100
R4014 100
R4015 100
R4016 100
R4045 10k
R4044 100
R4043 100
C4021 1000p CH
AMPOVERLOAD
GND
R4001 100
R4002 100
R4003 100
R4004 100
R4005 8.2k
R4006 8.2k
R4007 8.2k
R4008 8.2k
SL ch
SR ch
IC4400
SBL ch
SBR ch
IC4600
C ch
IC4700
FR ch
FL ch
C4216 1u/16
Q4208 2SD2704K
R4211 220k
C4259 NM
R4212 22k
R4278 NM
C4212 100u ACH1479-A
C4213 100u ACH1479-A
C4214 ACG7068-A-T
R4213 NM 1%
C4112 100u ACH1479-A
C4113 ACH1479-A 100u
R4113 NM 1%
R4178 NM
Q4108 2SD2704K
R4111 220k
C4159 NM
R4112 22k
C4116 1u/16
C4114 680p
ACG7068-A-T
C4115 1u/10
IC4200 ICC1-AVR
CS1_ch1
CS2_ch1
RECout_ch1
Vin__ch1
DC_FB_ch1
Vin_ch2
DC_FB_ch2
RECout_ch2
CS1_ch2
CS2_ch2
Ref_ch2
UVP_en
Vdd
NC
In_A_Ch1
Out_A_Ch1
In_B_Ch1
Out_B_Ch1
In_C_Ch1
Ref_ch1
Vss
Main_Gnd
Pwm+_ch1
Pwm-_ch1
Mod_ch1
ZobelSense1
NTC_in
Average1
Average2
ZobelSense2
Mod_Ch2
Pwm+_ch2
Pwm-_ch2
MODULATOR
In_B_Ch2
Out_B_Ch2
In_C_Ch2
Vd_check
Vs_check
Discharge
OC_mon
Enable
Thermal
In_A_Ch2
Out_A_Ch2
VD_CHK1
VS_CHK1
AMPOVERLOAD
R4124 27k 1%
C4122 2200p ACG7073-A
R4125 1k 1%
R4126 1.5k 1%
R4127 1.5k 1%
R4173 100k
C4156 0.1u/16
B D-MOTHER ASSY
F INTERFACE ASSY
CN2005 -10
CN7005 -10
CN7051 -10
AMP_OL
UCOM
IC2001

[2] Error Indications When an Abnormality in The Amplifier System Is Detected

[Purpose]

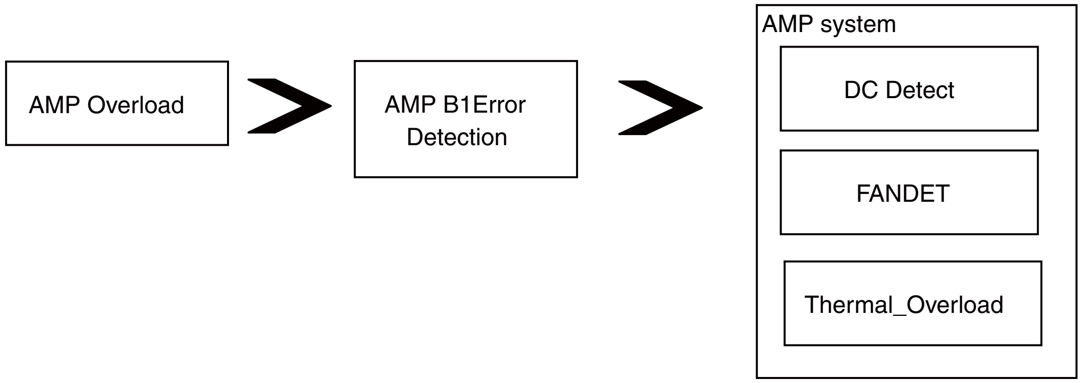
Errors upon detection of abnormalities in the amp system are indicated.

[Error Indications]

	FL Display	LED flashes	Status	Timing (sec.)	Remarks
(1)	AMP ERR	ICE Blue LED	When the AMP DC is detected during normal opeartion.	FL flashes 3 times. LED flashes after the power off.	
		MCACC LED	When the AMP DC is detected during power-on sequence after the DC output was once detected.	FL flashes 3 times. LED flashes after the power off.	
(2)	NA	PHASE CONTROL	When an abnormality of electric current of output stage is detected.	LED flashes after the power off.	
(3)	NA	PHASE CONTROL	When an abnormality of overheat of output stage is detected.	LED flashes after the power off.	
(4)	FAN STOP	VIDEO SCALER	When an abnormality is detected inthe fan fot the AMP.	FL flashes 3 times. LED flashes after the power off.	
(5)	OVERHEAT	ICE Blue LED	When an abnormality of overheat is detected in the power supply B REG circuit.	FL flashes 3 times. LED flashes after the power off.	Abnormality detection in the power supply B REG circuit
(6)	NA	MCACC LED	When an abnormality is detected in the ouput voltage of the power supply B REG circuit.	LED flashes after the power off.	
(7)	12V TRG ERR	NA	When the 12V trigger circuit is short-circuited.	Flashes	
(8)	USB ERROR1	NA	When the overload USB device (over500 mA) is connected.	Flashes	
(9)	HDCP ERROR	NA	When an HDCP ERROR is detected.	Flashes 5 seconds	Warning indication for HDMI Simplay
(10)	NOT SUPPORT	NA	When the monitor outputs a non supported video format.	Flashes 5 seconds	
(11)	HDMI NG	NA	When an error is detected during communication with the HDMI micro-computer.	Flashes	Warning indication for microcomputer commnunication
(12)	DSP NG	NA	When an error is detected during communication with the DSP micro-computer.	Flashes	

[Detection and Display Priority]

In principle, the abnormality is preferentially detected as the following order.



[Descriptions]

(1)	AMP ERR	In Normal Operation mode, if a failure in the amp block or high DC output is detected, "AMP ERR" appears and starts flashing, and the shutdown process starts. The power is shut off, and the ICE Blue LED starts flashing. To restore the previous status 1 minutes or more after a shutdown, just turn the unit back on.
		If a failure in the amp block or high DC output is detected during a power-on sequence after high DC output was once detected, "AMP ERR" appears and starts flashing, and the shutdown process starts. The power is shut off, and the MCACC LED starts flashing. To restore the previous status, follow the procedure described in "How to Enter Release Mode" below then turn the unit back on. If the unit shuts off again, the AMP block may be in failure.
(2)	Overcurrent detection	Upon detection of overcurrent in the MOSFET at the amp output stage, the unit power off immediately, and the PHASE CONTROL LED starts flashing. The previous stage will be restored when the unit is turned back on.
(3)	Overheat detection	If abnormality temperature is detected in the MOSFET at the amp output stage, the unit power off immediately, and the PHASE CONTROL LED starts flashing. To restore the previous status, turn the unit back on.
(4)	FAN STOP	If abnormality is detected in the fan for the AMP, "FAN STOP" appears and starts flashing, and the shutdown process starts. The power is shut off. The VIDEO SCALER LED starts flashing. To restore the previous status, turn the unit back on.
(5)	OVERHEAT	If abnormality temperature is detected in the power supply B REG circuit, the unit power off immediately, and the ICE Blue LED starts flashing. To restore the previous status, turn the unit back on.
(6)	Failure in the power supply B REG circuit	If abnormality voltage is detected in the power supply B REG circuit, the unit power off immediately, and the MCACC LED starts flashing. To restore the previous status, follow the procedure described in "How to Enter Release Mode" below then turn the unit back on. If the unit shuts off again, the AMP block may be in failure.
(7)	12V TRG ERR	The 12V trigger circuit is short-circuited, and a overcurrent is generated.
(8)	USB ERROR1	The connected USB device is overload.
(9)	HDCP ERROR	The monitor does not support HDCP type or is in standby mode.
(10)	NOT SUPPORT	When an input analog signal is converted and output as an HDMI signal (via the scaler), the output signal is of a resolution not supported by the connected monitor.
(11)	HDMI NG	There is no response from the HDMI microcomputer.
(12)	DSP NG	There is no response from the DSP microcomputer.

[How to Enter Release Mode]

During Standby mode, simultaneously press and hold the " ⬇ (DOWN)" and "ZONE2 ON/OFF" keys for 2 seconds.

6. SERVICE MODE

6.1 TEST MODE

The Service mode has three functional blocks (VERSION block, PROTECT block and DOWNLOAD block).

[1] How to Enter The Service Mode

1. Turn off MULTI-ZONE. Lower MASTER VOLUME to the minimum (---dB) and turn off the power.
2. After the power-off, press and hold down both the "ENTER" key and the "MULTI-ZONE ON/OFF" key for approximately five seconds.

[2] How to Exit The Service Mode

Turning off the power or pressing the RETURN key returns to the normal mode.

[3] Mode Transition Methods For Each of The VERSION Block, PROTECT Block and DOWNLOAD Block

*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
VERSION block 1/4 Display MAIN / EVENT microcomputer.	M1.000 E1.000
[→] [←]	
PROTECT block 1/11 Display number of times DC is detected.	DC : 000
[→] [←]	
DOWNLOAD block 1/7 Display MAIN computer DOWNLOAD.	MAIN DL[START]
[→] [←]	
Return to VERSION block 1/3.	

1) VERSION block

This block displays version information of various microcomputers and DSP firmware.
*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display	Explanation on displayed versions
Test mode ON		
VERSION block 1/4 MAIN/EVENT microcomputer	M1.000 E1.000	M * . *** : MAIN microcomputer E * . *** : EVENT microcomputer
[↓] [↑]		
VERSION block 2/4 DISPLAY (EMMA) microcomputer	DISP 1.000	DISP * . *** : DISPLAY microcomputer
[↓] [↑]		
VERSION block 3/4 DSP/HDMI microcomputer	D1.000 H1.000	D * . *** : DSP microcomputer H * . *** : HDMI microcomputer
[↓] [↑]		
VERSION block 4/4 1stDSP/2ndDSP firmware	f 1.000 s 1.000	f * . *** : 1st DSP firmware s* . *** : 2nd DSP firmware
[↓] [↑]		
To PROTECT block		

2) PROTECT block

This block displays number of times protection processing is detected.
*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
PROTECT block 1/11 Display number of times DC is detected.	DC : 000
[↓] [↑]	
PROTECT block 2/11 Display number of times OVERLOAD is detected.	OVER: 010
[↓] [↑]	
PROTECT block 3/11 Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously)	CON : 002
[↓] [↑]	
PROTECT block 4/11 Displays number of times FAN error is detected.	FAN : 002
[↓] [↑]	
PROTECT block 5/11 Display number of times overheat is detected.	TEMP1: 255
[↓] [↑]	
PROTECT block 6/11 Display number of times abnormal temperature is detected.	TEMP2: 255
[↓] [↑]	
PROTECT block 7/11 Displays number of times abnormal temperature at PowerAmp supply is detected.	**BTMP: 126**
[↓] [↑]	
PROTECT block 8/11 Display number of times defect at PowerAmp supply is detected.	**BERR: 125**
[↓] [↑]	

Key operation	FL display
PROTECT block 9/11 Resetting the number of times error is detected	RESET ◀ HOLD ▶
[↓] [↑]	
PROTECT block 10/11 Display accumulated time & RESET.	12345h20m◀HLD▶
[↓] [↑]	
PROTECT block 11/11 The Timer of Exception "Set Stream Path" command on CEC.	EX.SSP◀1500ms▶
[↓] [↑]	
To DOWNLOAD block	

Resetting the number of times error is detected

Key operation	FL display
[←][→]	RESET ◀CLEAR?▶
[ENTER]	RESET [RESET]
↓ To normal mode	

Resetting the accumulated time

Key operation	FL display
[←][→]	12345h20m◀CL ?▶
[ENTER]	0h 0m◀RST▶
↓ To normal mode	

Setting of the Timer of Exception "Set Stream Path" command on CEC.

Key operation	FL display
[←][→]	EX.SSP◀ 600ms▶
↓ To normal mode	

3) DOWNLOAD block

This block enters the rewriting mode of various microcomputers and DSP firmware.

Key operation	FL display
DOWNLOAD block 1/7 MAIN computer DOWNLOAD [↓] [↑]	MAIN DL[START]
DOWNLOAD block 2/7 EVENT computer DOWNLOAD [↓] [↑]	EVNT DL[START]
DOWNLOAD block 3/7 DISP computer DOWNLOAD [↓] [↑]	DISP DL[START]
DOWNLOAD block 4/7 DSP computer DOWNLOAD [↓] [↑]	DSPM DL[START]
DOWNLOAD block 5/7 HDMI computer DOWNLOAD [↓] [↑]	HDMI DL[START]
DOWNLOAD block 6/7 1stDSP FIRM DOWNLOAD [↓] [↑]	DSP1 DL[START]
DOWNLOAD block 7/7 2ndDSP FIRM DOWNLOAD [↓] [↑]	DSP2 DL[START]
To VERSION block	

7. DISASSEMBLY

Note 1: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Note 2: For performing the diagnosis shown below, the following jigs for service is required:

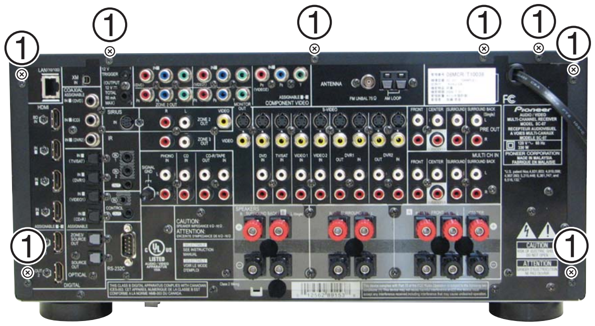
- 27P FFC (GGD1588)
- 19P FFC (GGD1589) x2
- 21P FFC (GGD1590)
- 16P FFC (GGD1591)
- 30P+13P board to board extension jig cable (GGD1592)
- 17P+19P board to board extension jig cable (GGD1593)
- 5P PH HOUSING ASSY (GGD1594) x3

Note 3: Before starting the diagnosis, wait for three minutes until the electricity of the unit is discharged.

1. Disassembly

1 Bonnet

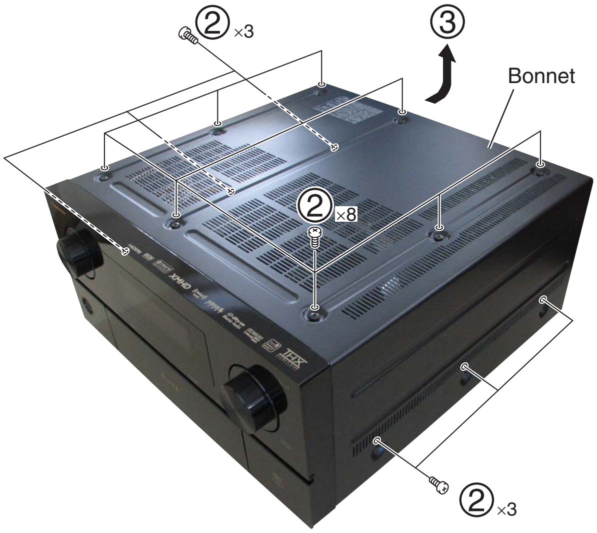
① Remove the eight screws.



● **Rear view**

② Remove the fourteen screws.

③ Remove the Bonnet.



2 Rear Panel

① Remove the two screws.

② Remove the Center Beam V1.

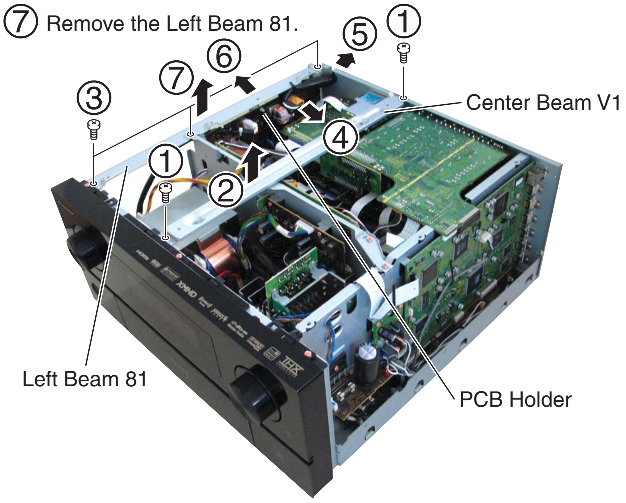
③ Remove the three screws.

④ Disconnect the one connector.

⑤ Remove the Cord Stopper.

⑥ Remove the PCB Holder from the Left Beam 81.

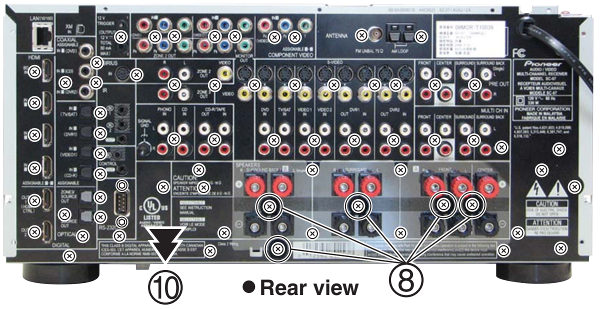
⑦ Remove the Left Beam 81.



⑧ Remove the five Cushion circle 14B.

⑨ Remove the 69 screws.

⑩ Remove the Rear Panel.

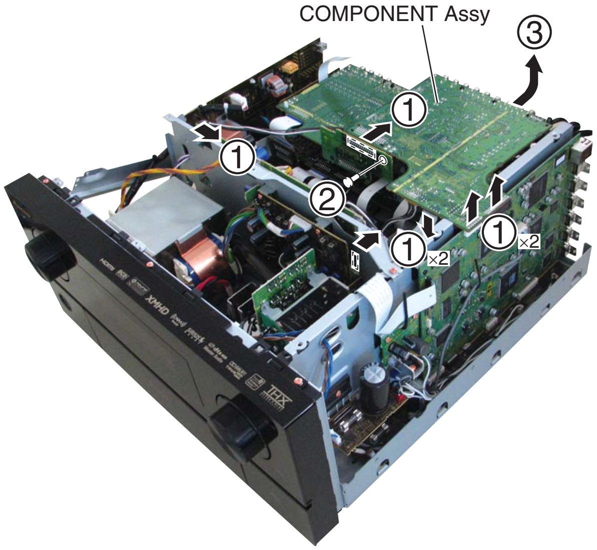


● **Rear view**

3 PCB Assys and ICE

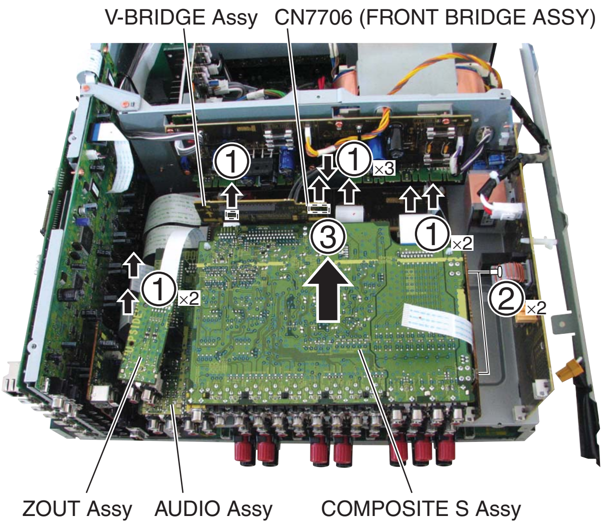
• COMPONENT Assy

① Disconnect the one flexible cable and five connectors.
② Remove the one Push Rivet.
③ Remove the COMPONENT Assy.


COMPONENT Assy
③
①
①
②
① ×2
① ×2

• AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy

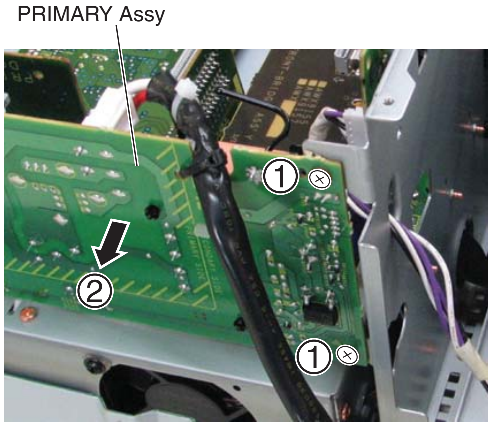
① Disconnect the six flexible cables and two connector.
② Remove the two Push Rivets.
③ Remove the AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy.


V-BRIDGE Assy
CN7706 (FRONT BRIDGE ASSY)
①
① ×3
③
① ×2
① ×2
② ×2
ZOUT Assy
AUDIO Assy
COMPOSITE S Assy

● **Rear view**

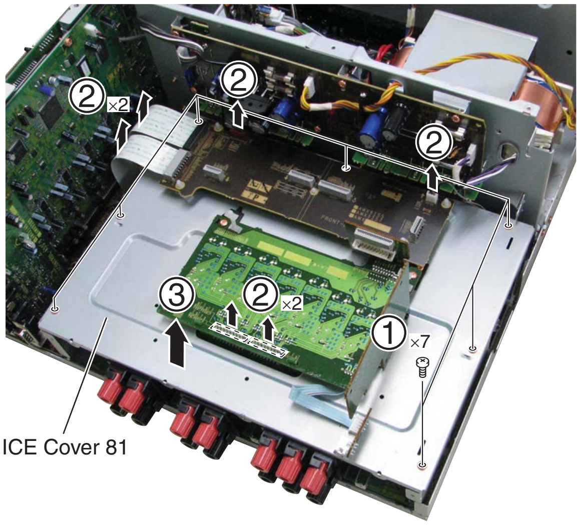
• PRIMARY Assy

① Remove the two screws.
② Remove the PRIMARY Assy.


PRIMARY Assy
①
②
①

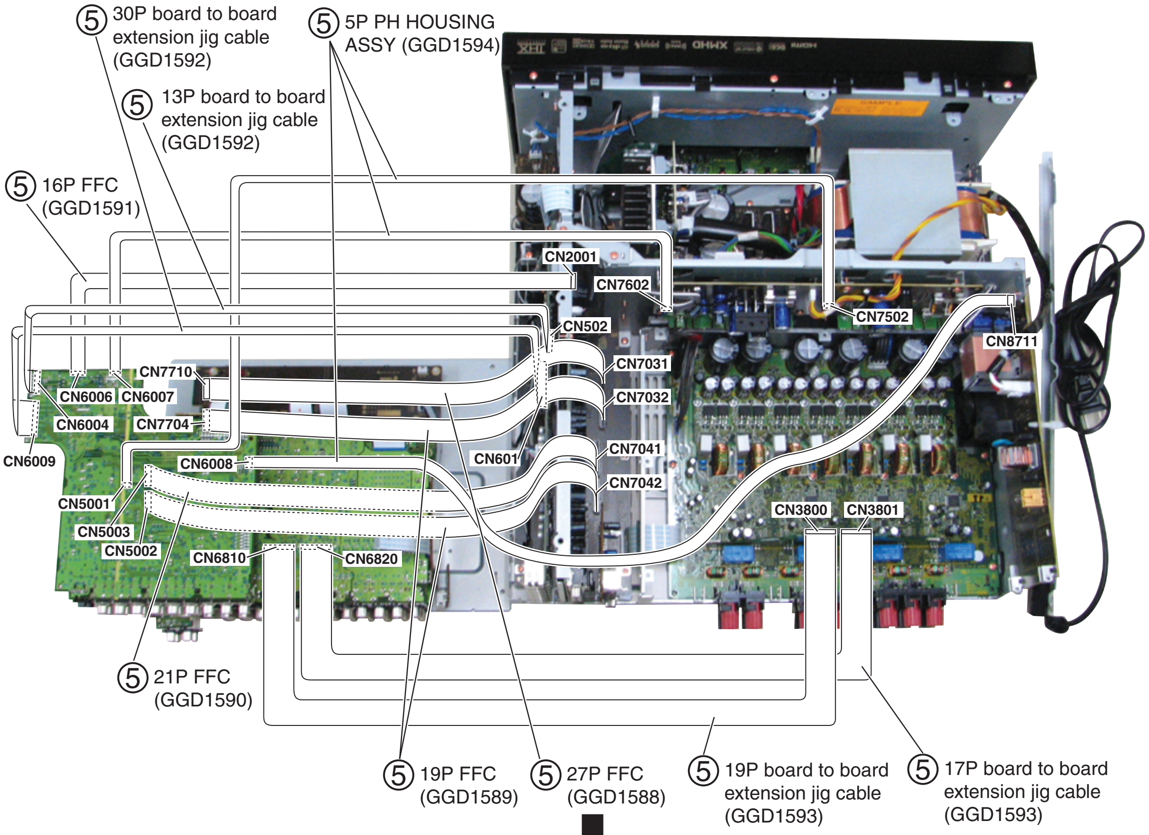
• ICE Cover 81 Section

① Remove the seven screws.
② Disconnect the two flexible cables and four connectors.
③ Remove the ICE Cover 81.


② ×2
②
②
③
② ×2
① ×7
ICE Cover 81

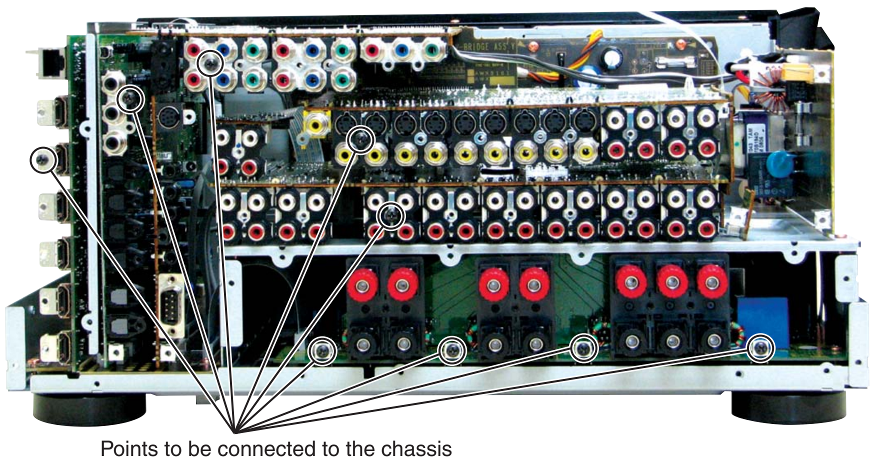
4 Diagnosis

① Reassembling the PRIMARY Assy.
② Reassembling the AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy on the Ice Cover 81.
③ Reassembling the COMPONENT Assy on the V-BRIDGE Assy.
④ Connect the twelve extension jig cables.
⑤ Arrange the unit as shown in the photo below.


⑤ 30P board to board extension jig cable (GGD1592)
⑤ 5P PH HOUSING ASSY (GGD1594)
⑤ 13P board to board extension jig cable (GGD1592)
⑤ 16P FFC (GGD1591)
CN2001
CN7602
CN7502
CN8711
CN502
CN7031
CN7032
CN7710
CN6006
CN6007
CN6004
CN7704
CN6009
CN6008
CN601
CN7041
CN7042
CN5001
CN5003
CN5002
CN6810
CN6820
CN3800
CN3801
⑤ 21P FFC (GGD1590)
⑤ 19P FFC (GGD1589)
⑤ 27P FFC (GGD1588)
⑤ 19P board to board extension jig cable (GGD1593)
⑤ 17P board to board extension jig cable (GGD1593)

Diagnosis

Note : As mentioned below, detach the rear panel, re-fasten the screws at the corresponding points, and connect the chassis to the ground.


Points to be connected to the chassis

8. EACH SETTING AND ADJUSTMENT

8.1 HOW TO UPDATE FIRMWARE

[1] MAIN, DSP, HDMI, EVENT and DISP Microcomputer

[Purpose]

Refer to this section when updating the firmware of each microcomputer is required by the service information, etc.

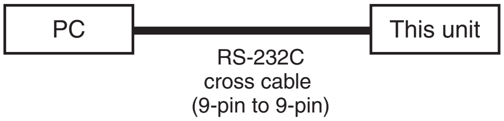
[Necessary Tools]

- PC with a serial port
- RS-232C cable (9-pin to 9-pin, cross)
- Firmware ("mot" extension) **(except DISP u-com)**
  ("sz0" extension) **(for DISP u-com)**
- Program for updating (ufu.exe: ver. 1.08) **(except DISP u-com)**
  (ufu.exe: ver. 1.10) **(for DISP u-com)**

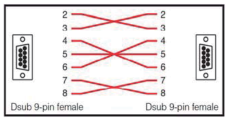
[Connections)]

Connect as indicated in the figure right:

(MAIN microcomputer)
(EVENT microcomputer)
(HDMI microcomputer)
(DSP microcomputer)
(DISP microcomputer)



Pin-out diagram of RS-232C cross cable



[Note]

Do NOT disconnect the AC power cords of this unit nor the PC.

1) HDMI, MAIN, DSP and EVENT microcomputer

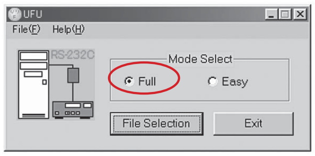
[Procedures]

1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C cross cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at CONFIDENTIAL PANEL mode.
5. (MAIN microcomputer)
   Press ↓ key and select “MAIN DL [START]” display.
   Press ENTER key and set to “MAIN DL [GO ON]”.

   (EVENT microcomputer)
   Press ↓ key and select “EVENT DL [START]” display.
   Press ENTER key and set to “EVENT DL [GO ON]”.

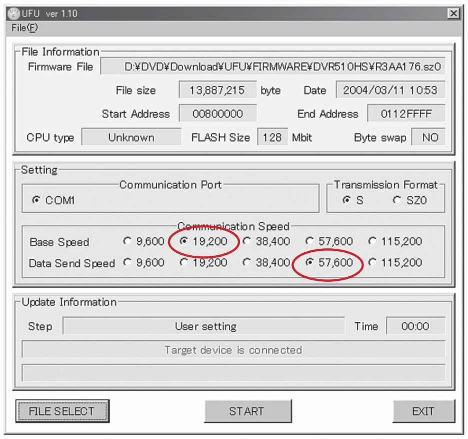
   (DSP microcomputer)
   Press ↓ key and select “DSPM DL [START]” display.
   Press ENTER key and set to “DSPM DL [GO ON]”.

   (HDMI microcomputer)
   Press ↓ key and select “HDMI DL [START]” display.
   Press ENTER key and set to “HDMI DL [GO ON]”.
6. Double-click on "ufu.exe: ver.1.08".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "**mot**" extension.
9. Select the communication speed.
   - Basic speed: 19200
   - Data transfer speed: 57600
10. Click on "START" button.
11. "Completed" is displayed in the"ufu.exe" window.
12. Please retry it from 2 when it doesn’t so well.
13. Turn off the unit and end the ufu.exe.
    Disconnect the AC power cord of the unit.
    and the RS-232C cable.
14. Clear the memories.
    1) Connect the AC power cord of the unit
    2) Press “SETUP” button and “POWER” button.
    3) Then the receiver is turned on and displays“RESET[NO]”.
    4) Push “→” key and displays “RESET [RESET]”
    5) Then push “ENTER” key and displays “RESET? [OK]”.
    6) Push “ENTER” key and often a while “OK” is displayed.
15. Check the version.
    Following the procedures described in "Version indication" in "6.1 TEST MODE", check that the version has been changed to a new one.



Mode Select: ● Full ○ Easy

Check that "Full" is selected in MODE SELECT.



File Information
Firmware File: D:¥DVD¥Download¥UFU¥FIRMWARE¥DVR510HS¥R3AA176.sz0
File size: 13,887,215 byte
Date: 2004/03/11 10:53
Start Address: 00800000
End Address: 0112FFFF
CPU type: Unknown
FLASH Size: 128 Mbit
Byte swap: NO

Setting
Communication Port: ● COM1
Transmission Format: ● S ○ SZ0
Communication Speed
Base Speed: ○ 9,600 ● 19,200 ○ 38,400 ○ 57,600 ○ 115,200
Data Send Speed: ○ 9,600 ○ 19,200 ○ 38,400 ● 57,600 ○ 115,200

Update Information
Step: User setting
Time: 00:00
Target device is connected

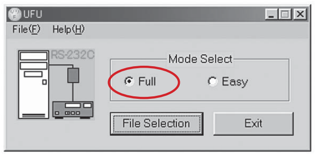
Select the communication speed.

- Basic speed: 19200
- Data transfer speed: 57600

2) DISP microcomputer

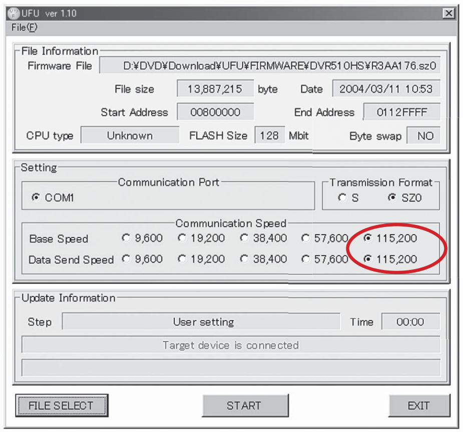
[Procedures]

1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C cross cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at CONFIDENTIAL PANEL mode.
5. (DISP microcomputer)
   Press ↓ key and select “DISP DL [START]” display.
   Press ENTER key and set to “DISP DL [GO ON]”.
6. Double-click on "ufu.exe: ver.1.10".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "**sz0**" extension.
9. Select the communication speed.
   - Basic speed: 115200
   - Data transfer speed: 115200
10. Click on "START" button.
11. "Completed" is displayed in the"ufu.exe" window.
12. Please retry it from 2 when it doesn’t so well.
13. Turn off the unit and end the ufu.exe.
    Disconnect the AC power cord of the unit.
    and the RS-232C cable.
14. Clear the memories.
    1) Connect the AC power cord of the unit
    2) Press “SETUP” button and “POWER” button.
    3) Then the receiver is turned on and displays “RESET [NO]”.
    4) Push “→” key and displays “RESET [RESET]”
    5) Then push “ENTER” key and displays “RESET? [OK]”.
    6) Push “ENTER” key and often a while “OK” is displayed.
15. Check the version.
    Following the procedures described in
    "Version indication" in "6.1 TEST MODE",
    check that the version has been changed to a new one.



Mode Select: ● Full ○ Easy

Check that "Full" is selected in MODE SELECT.



File Information
Firmware File: D:¥DVD¥Download¥UFU¥FIRMWARE¥DVR510HS¥R3AA176.sz0
File size: 13,887,215 byte
Date: 2004/03/11 10:53
Start Address: 00800000
End Address: 0112FFFF
CPU type: Unknown
FLASH Size: 128 Mbit
Byte swap: NO

Setting
Communication Port: ● COM1
Transmission Format: ○ S ● SZ0
Communication Speed
Base Speed: ○ 9,600 ○ 19,200 ○ 38,400 ○ 57,600 ● 115,200
Data Send Speed: ○ 9,600 ○ 19,200 ○ 38,400 ○ 57,600 ● 115,200

Update Information
Step: User setting
Time: 00:00
Target device is connected

Select the communication speed.
- Basic speed: 115200
- Data transfer speed: 115200

[3] DSP Flash Rom Update by USB Memory

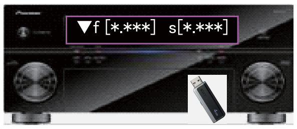
[Preparations]

1. Copy the DSP Firmware for update to the USB MEMORY in advance.
    - * One file for DSP1 and DSP2
    - * Unable to update by the program except for 08 Mid receiver.
2. Connect the MONITOR OUT of this unit to DISPLAY.
3. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
4. Connect the USB MEMORY to the iPod DIRECT USB terminal of this unit.

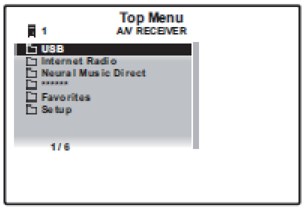
[Procedure]

1. Simultaneously press and hold POWER and RETURN keys for about 5 seconds.
2. The DSP firmware version is dislplayed automatically.
   Confirm the Version before the update.
   "f [*.***]   s [*.***] is displayed on the FL display. **(A)**
   f: DSP1 firmware
   s: DSP2 firmware
3. Select the "USB" on the monitor TV. **(B)**
4. Select the file for Firmware update. **(C)**
5. The updating program starts and the HDMI indicator becomes flashing. **(D)**
6. After about 2 minutes, the HDMI indicator stops flashing and the update is finished.
   Confirm "DSPF DL [OK]" is displayed on the FL dislay. **(E)**
7. Turn off the unit and disconnect the USB MEMORY.

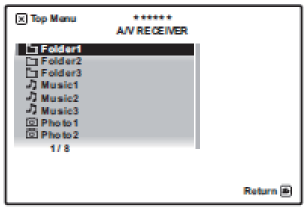
(A)



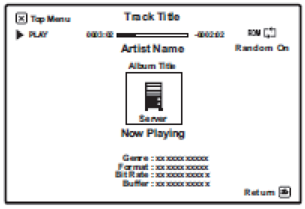
(B)


Top Menu
A/V RECEIVER
1
USB
Internet Radio
Neural Music Direct
******
Favorites
Setup
1 / 6

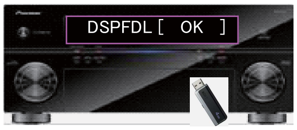
(C)


Top Menu
******
A/V RECEIVER
Folder1
Folder2
Folder3
Music1
Music2
Music3
Photo1
Photo2
1 / 8
Return

(D)


Top Menu
Track Title
PLAY
Artist Name
Random On
Album Title
Server
Now Playing
Genre :
Format :
Bit Rate :
Buffer :
Return

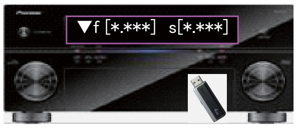
(E)



[Confirmation]

1. Simultaneously press and hold POWER and RETURN keys for about 5 seconds.
2. The DSP firmware version is dislplayed automatically.
   Confirm the Version after the update. **(F)**

(F)



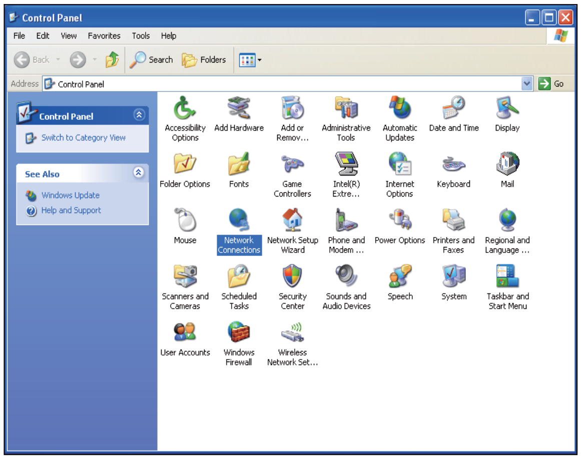
[4] Network Firmware Update Procedure

Note: Please prepare the firmware file in your PC before starting this procedure.

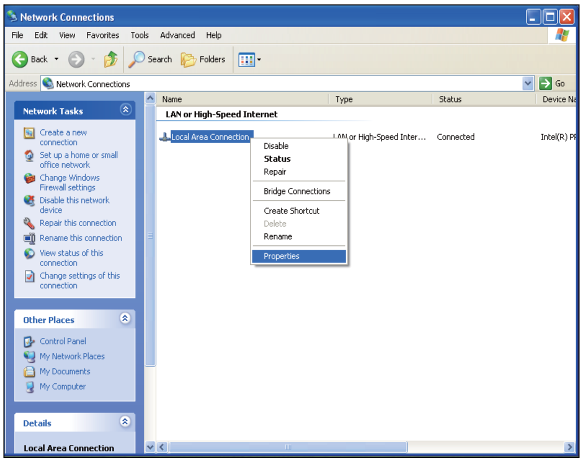
[Procedure]

1. Connect the LAN terminal on the AV receiver to the LAN terminal on PC with a LAN cable (cross or straight).
2. Set the Static IP Address of the PC.
   *When using the DHCP router, go to Step 3.
   It is not necessary to execute this Step 2 in that case.

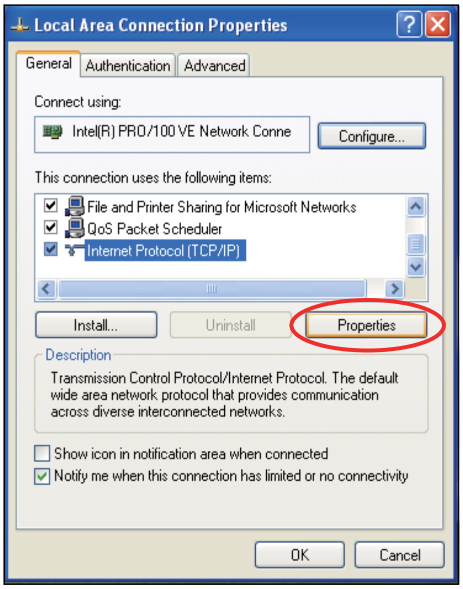
Open the Control Panel. --->
Open the Network Connections (double click).


Control Panel
File Edit View Favorites Tools Help
Back Search Folders
Address Control Panel Go
Control Panel
Switch to Category View
See Also
Windows Update
Help and Support
Accessibility Options
Add Hardware
Add or Remov...
Administrative Tools
Automatic Updates
Date and Time
Display
Folder Options
Fonts
Game Controllers
Intel(R) Extre...
Internet Options
Keyboard
Mail
Mouse
Network Connections
Network Setup Wizard
Phone and Modem ...
Power Options
Printers and Faxes
Regional and Language ...
Scanners and Cameras
Scheduled Tasks
Security Center
Sounds and Audio Devices
Speech
System
Taskbar and Start Menu
User Accounts
Windows Firewall
Wireless Network Set...

Local Area Connection (right click) ---> Properties


Network Connections
File Edit View Favorites Tools Advanced Help
Back Search Folders
Address Network Connections Go
Network Tasks
Create a new connection
Set up a home or small office network
Change Windows Firewall settings
Disable this network device
Repair this connection
Rename this connection
View status of this connection
Change settings of this connection
Other Places
Control Panel
My Network Places
My Documents
My Computer
Details
Local Area Connection
Name
Type
Status
Device Na
LAN or High-Speed Internet
Local Area Connection
LAN or High-Speed Inter...
Connected
Intel(R) PR
Disable
Status
Repair
Bridge Connections
Create Shortcut
Delete
Rename
Properties

Local Area Connections Properties --->
Internet Protocol (TCP/IP) ---> Properties


Local Area Connection Properties
General
Authentication
Advanced
Configure...
Install...
Uninstall
Properties
Description
OK
Cancel

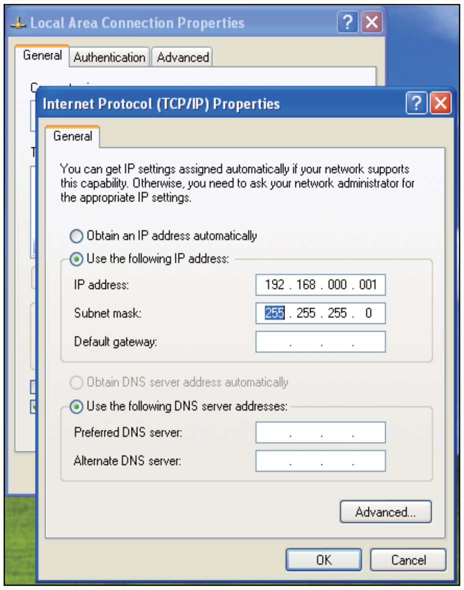
Connect using:
Intel(R) PRO/100 VE Network Conne

This connection uses the following items:
☑ File and Printer Sharing for Microsoft Networks
☑ QoS Packet Scheduler
☑ Internet Protocol (TCP/IP)

Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.

☐ Show icon in notification area when connected
☑ Notify me when this connection has limited or no connectivity

Internet Protocol (TCP/IP) Properties


Local Area Connection Properties
General
Authentication
Advanced
Internet Protocol (TCP/IP) Properties
General
Advanced...
OK
Cancel

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address:
IP address: 192 . 168 . 000 . 001
Subnet mask: 255 . 255 . 255 . 0
Default gateway: . . .

○ Obtain DNS server address automatically
● Use the following DNS server addresses:
Preferred DNS server: . . .
Alternate DNS server: . . .

Set the following settings.

Use the following IP address:
IP address: 192.168.000.001
Subnet mask: 255.255.255.0

3. Set the Static IP Address of the AV receiver.

Note: Please confirm the Network IP settings of the customer's unit before changing the IP Address.
Home Media Gallery ---> Setup ---> NetworkSetup ---> NetworkFound ---> Static IP Address
If using the Static IP Address, please record it.

Home Media Gallery ---> Setup ---> NetworkSetup ---> NetworkFound ---> Static IP Address

Set the following settings.

IP address: 192.168.000.002
Subnet mask: 255.255.255.0
Gateway IP: 192.168.000.001
Proxy Server: No

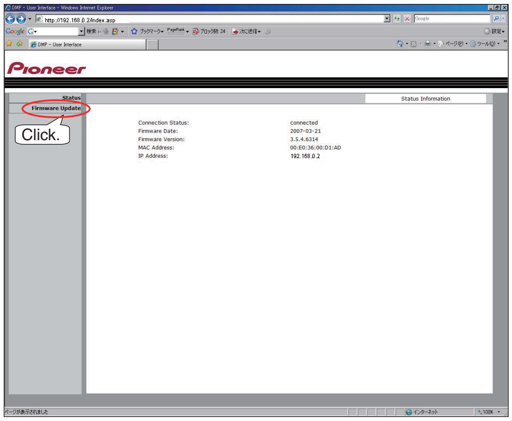
4. Open the Internet Explorer on the PC.

Enter the following address.

http:// 192.168.000.002

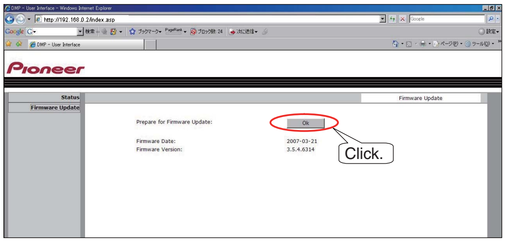
The following page will be appeared.

Click the Firmware Update.

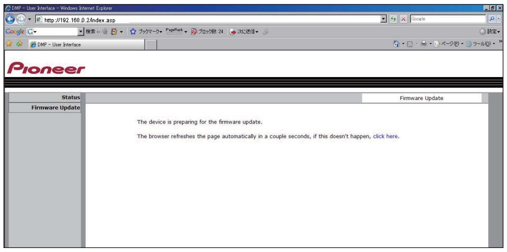

DMP - User Interface - Windows Internet Explorer
http://192.168.0.2/index.asp
Pioneer
Status
Firmware Update
Status Information
Click.

Connection Status: connected
Firmware Date: 2007-03-21
Firmware Version: 3.5.4.6314
MAC Address: 00:E0:36:00:D1:AD
IP Address: 192.168.0.2

Click the Ok button.


DMP - User Interface - Windows Internet Explorer
http://192.168.0.2/index.asp
Pioneer
Status
Firmware Update
Firmware Update
Ok
Click.

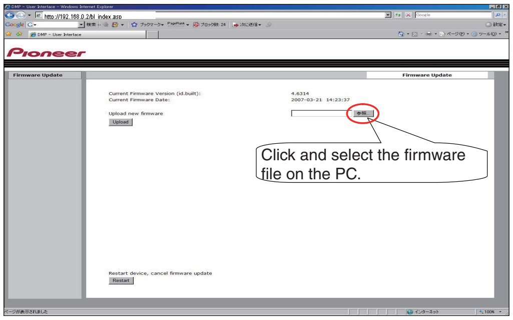
Prepare for Firmware Update:
Firmware Date: 2007-03-21
Firmware Version: 3.5.4.6314


DMP - User Interface - Windows Internet Explorer
http://192.168.0.2/index.asp
Pioneer
Status
Firmware Update
Firmware Update

The device is preparing for the firmware update.

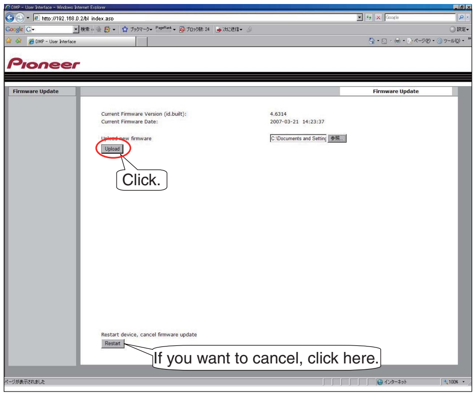
The browser refreshes the page automatically in a couple seconds, if this doesn't happen, click here.

Click the browse button and select the firmware file in the PC.


DMP - User Interface - Windows Internet Explorer
http://192.168.0.2/bl_index.asp
Pioneer
Firmware Update
Firmware Update
参照...
Upload
Restart
Click and select the firmware file on the PC.

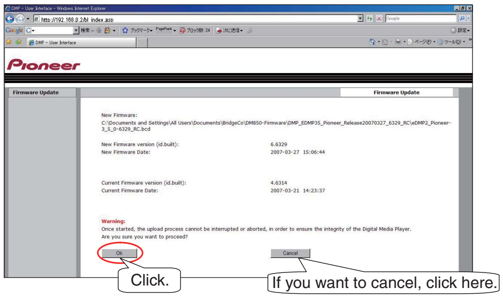
Current Firmware Version (id.built): 4.6314
Current Firmware Date: 2007-03-21 14:23:37
Upload new firmware
Restart device, cancel firmware update

Click the Upload button.


DMP - User Interface - Windows Internet Explorer
http://192.168.0.2/bl_index.asp
Pioneer
Firmware Update
Firmware Update
参照...
Upload
Click.
Restart
If you want to cancel, click here.

Current Firmware Version (id.built): 4.6314
Current Firmware Date: 2007-03-21 14:23:37
Upload new firmware C:\Documents and Setting
Restart device, cancel firmware update

Click the Ok button.


DMP - User Interface - Windows Internet Explorer
http://192.168.0.2/bl_index.asp
DMP - User Interface
Pioneer
Firmware Update
Firmware Update
Ok
Cancel

New Firmware:
C:\Documents and Settings\All Users\Documents\BridgeCo\DM850-Firmware\DMP_EDMP35_Pioneer_Release20070327_6329_RC\eDMP2_Pioneer-3_5_0-6329_RC.bcd

New Firmware version (id.built): 6.6329
New Firmware Date: 2007-03-27 15:06:44

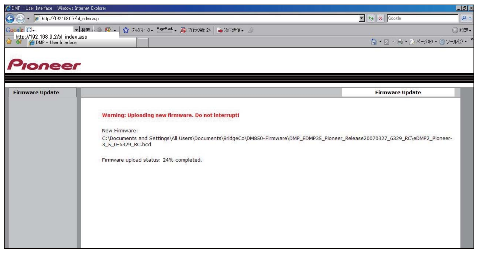
Current Firmware version (id.built): 4.6314
Current Firmware Date: 2007-03-21 14:23:37

Warning:
Once started, the upload process cannot be interrupted or aborted, in order to ensure the integrity of the Digital Media Player.
Are you sure you want to proceed?

Click.

If you want to cancel, click here.

The firmware update will be started.

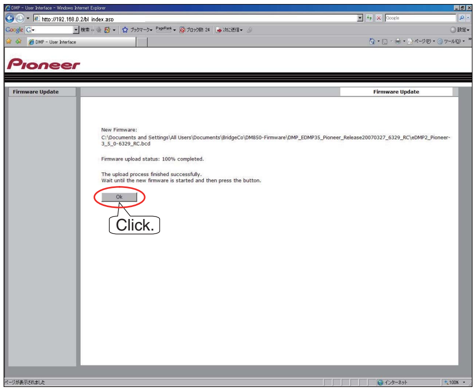

DMP - User Interface - Windows Internet Explorer
http://192.168.0.7/bl_index.asp
http://192.168.0.2/bl_index.asp
DMP - User Interface
Pioneer
Firmware Update
Firmware Update

Warning: Uploading new firmware. Do not interrupt!

New Firmware:
C:\Documents and Settings\All Users\Documents\BridgeCo\DM850-Firmware\DMP_EDMP35_Pioneer_Release20070327_6329_RC\eDMP2_Pioneer-3_5_0-6329_RC.bcd

Firmware upload status: 24% completed.

After the updating is completed, click the Ok button to return status page.


DMP - User Interface - Windows Internet Explorer
http://192.168.0.2/bl_index.asp
DMP - User Interface
Pioneer
Firmware Update
Firmware Update
Ok

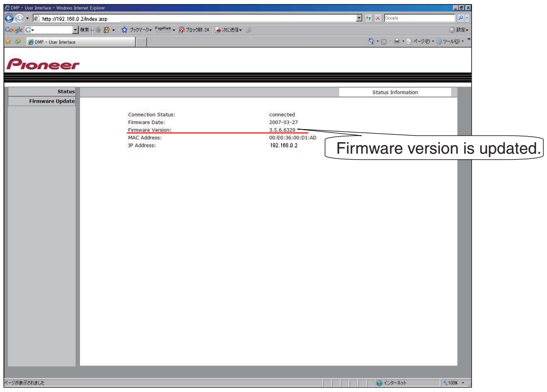
New Firmware:
C:\Documents and Settings\All Users\Documents\BridgeCo\DM850-Firmware\DMP_EDMP35_Pioneer_Release20070327_6329_RC\eDMP2_Pioneer-3_5_0-6329_RC.bcd

Firmware upload status: 100% completed.

The upload process finished successfully.
Wait until the new firmware is started and then press the button.

Click.

Confirm the Firmware Version.


DMP - User Interface - Windows Internet Explorer
http://192.168.0.2/index.asp
DMP - User Interface
Pioneer
Status
Firmware Update
Status Information

Connection Status: connected
Firmware Date: 2007-03-27
Firmware Version: 3.5.6.6329
MAC Address: 00:E0:36:00:D1:AD
IP Address: 192.168.0.2

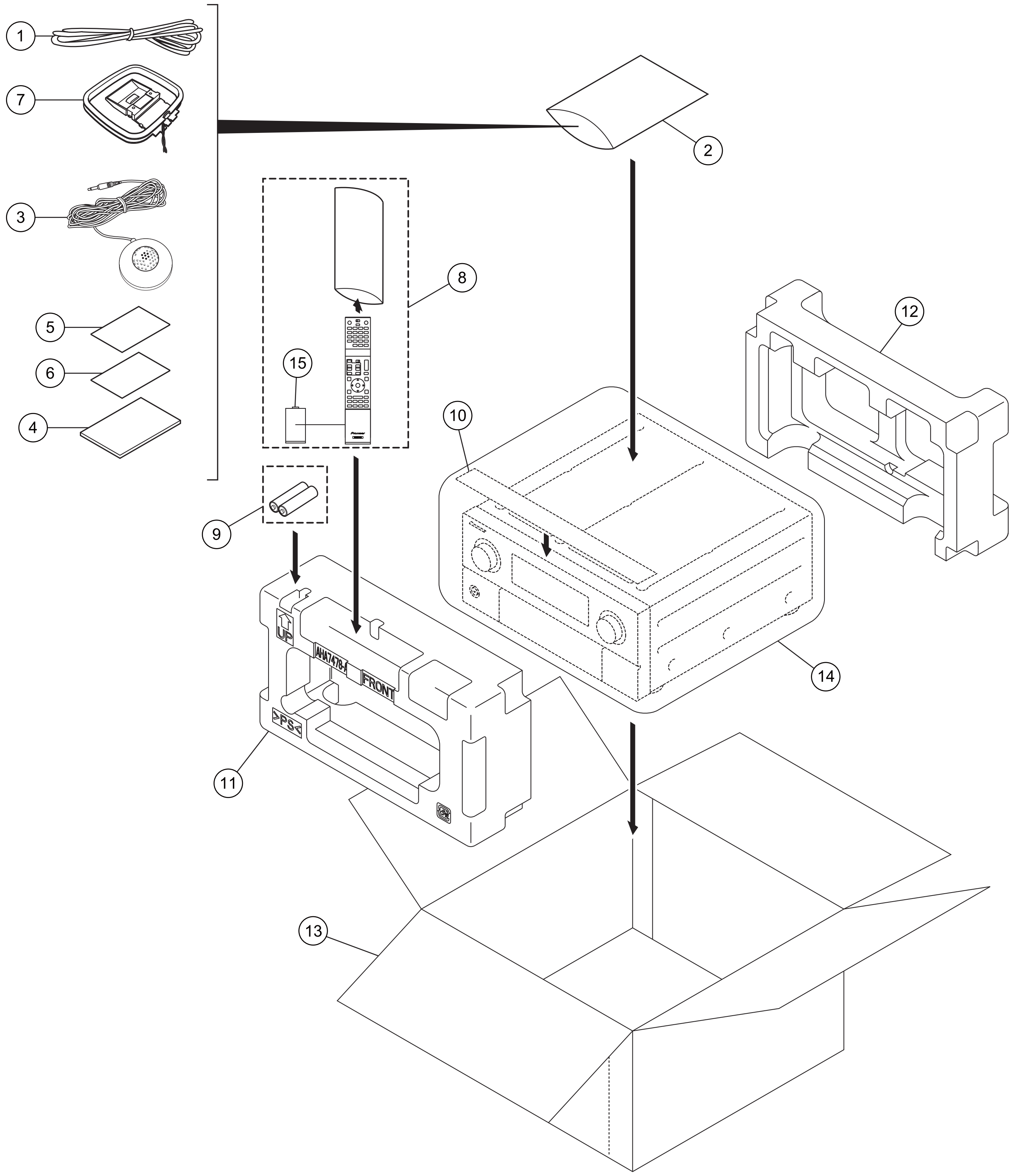
Firmware version is updated.

Note: Please restore the Network IP settings of the customer's unit after the update is completed.

9. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING SECTION

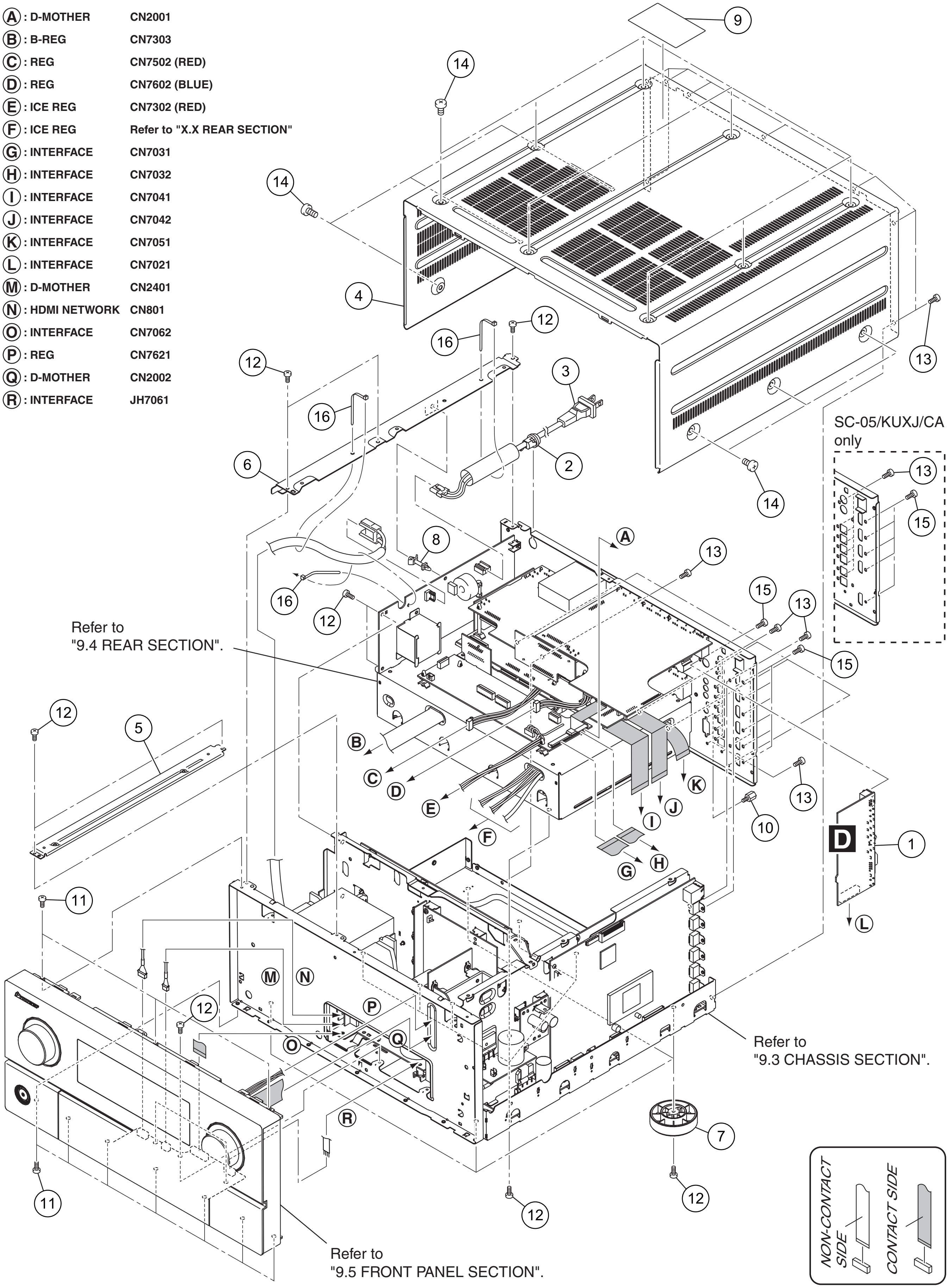


PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7030
NSP	2	Polyethylene Bag	AHG7117
	3	Setup Microphone (for Auto MCACC setup)	APM7008
	4	Operating Instructions	ARB7392
	5	Caution Sheet SP,E	ARM7056
NSP	6	Warranty Card	ARY7007
	7	AM Loop Antenna	ATB7013
	8	Remote Control Unit	AXD7520
NSP	9	Dry Cell Battery AA/LR6	VEM1031
	10	Protection Sheet LX	AEH7030
	11	Front Pad 81	AHA7478
	12	Rear Pad 81	AHA7479
	13	Packing Case (SC-07/KUXJ/CA)	AHD8601
	13	Packing Case (SC-05/KUXJ/CA)	AHD8602
	14	Packing Sheet	RHC1023
	15	Battery Cover	AZN8031

9.2 EXTERIOR SECTION

Ⓐ	: D-MOTHER	CN2001
Ⓑ	: B-REG	CN7303
Ⓒ	: REG	CN7502 (RED)
Ⓓ	: REG	CN7602 (BLUE)
Ⓔ	: ICE REG	CN7302 (RED)
Ⓕ	: ICE REG	Refer to "X.X REAR SECTION"
Ⓖ	: INTERFACE	CN7031
Ⓗ	: INTERFACE	CN7032
Ⓘ	: INTERFACE	CN7041
Ⓙ	: INTERFACE	CN7042
Ⓚ	: INTERFACE	CN7051
Ⓛ	: INTERFACE	CN7021
Ⓜ	: D-MOTHER	CN2401
Ⓝ	: HDMI NETWORK	CN801
Ⓞ	: INTERFACE	CN7062
Ⓟ	: REG	CN7621
Ⓠ	: D-MOTHER	CN2002
Ⓡ	: INTERFACE	JH7061


9
14
14
4
12
16
3
12
16
13
6
2
SC-05/KUXJ/CA only
13
15
14
8
A
13
15
13
16
12
15
12
5
B
C
D
E
F
K
J
I
13
10
D
1
G
H
L
11
M
N
P
12
O
Q
R
7
11
12
12
NON-CONTACT SIDE
CONTACT SIDE

Refer to "9.4 REAR SECTION".

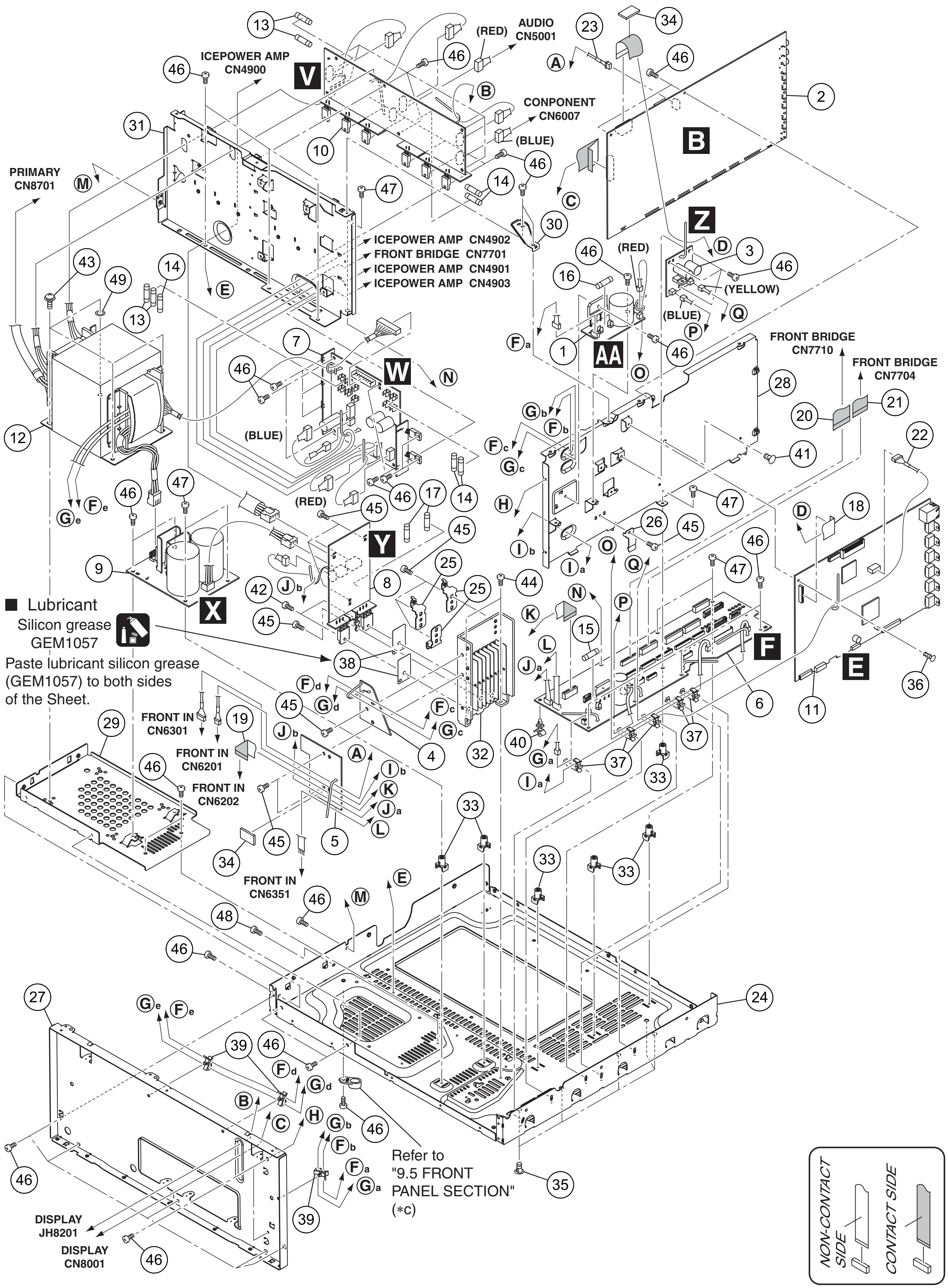
Refer to "9.3 CHASSIS SECTION".

Refer to "9.5 FRONT PANEL SECTION".

EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	232C & CONTROL ASSY	AWX9140
	2	Cord Stopper	CM-22C
⚠	3	AC Power Cord	VDG1075
	4	Bonnet 81B	AZN8036
	5	Center Beam V1	ANG7482
	6	Left Beam 81	ANG7624
	7	Insulator	AMR7198
	8	PCB Holder	PNW2562
	9	Lisence Label V5S	ARW7372
	10	Screw 2.85 x 7	ABA7078
	11	Screw	BBT30P080FCC
	12	Screw	BBZ30P080FCC
	13	Screw	BBZ30P080FTB
	14	Screw	BCZ40P060FTB
	15	Screw	PMZ30P060FTB
NSP	16	Binder (BK-1)	ZCA-BK1

9.3 CHASSIS SECTION


ICEPOWER AMP CN4900
AUDIO CN5001
(RED)
CONPONENT CN6007
(BLUE)
PRIMARY CN8701
ICEPOWER AMP CN4902
FRONT BRIDGE CN7701
ICEPOWER AMP CN4901
ICEPOWER AMP CN4903
(RED)
(YELLOW)
(BLUE)
FRONT BRIDGE CN7710
FRONT BRIDGE CN7704
(BLUE)
(RED)
FRONT IN CN6301
FRONT IN CN6201
FRONT IN CN6202
FRONT IN CN6351
DISPLAY JH8201
DISPLAY CN8001
V
W
X
Y
Z
AA
B
E
F
NON-CONTACT SIDE
CONTACT SIDE

■ Lubricant

Silicon grease GEM1057

Paste lubricant silicon grease (GEM1057) to both sides of the Sheet.

Refer to "9.5 FRONT PANEL SECTION" (∗c)

CHASSIS SECTION PARTS LIST

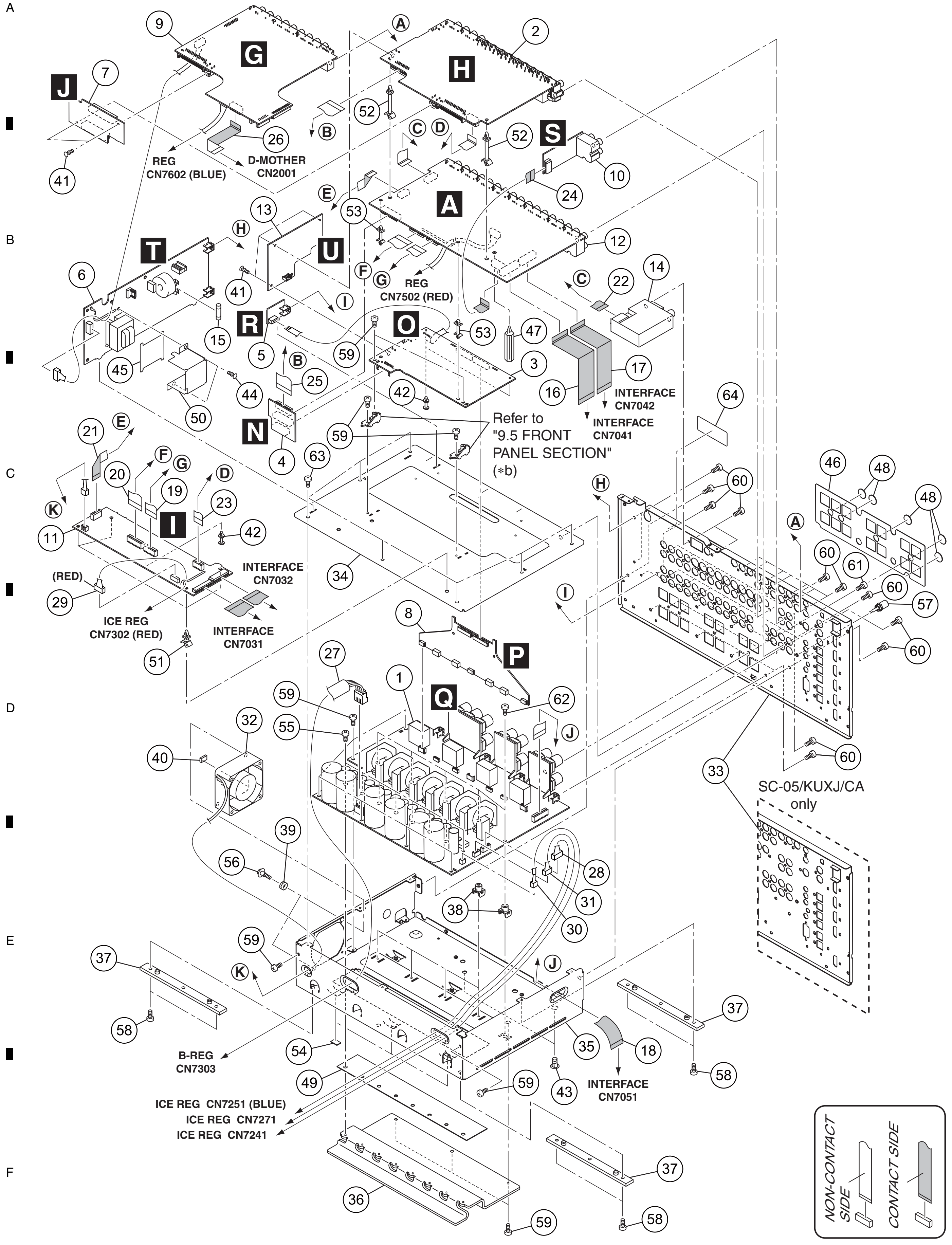
Mark	No.	Description	Part No.
⚠	1	HDMI RECT ASSY	AWX9156
	2	D-MOTHER ASSY	See Contrast table (2)
	3	DCDC ASSY	AWX9138
	4	H GUARD2 ASSY	AWX9147
	5	H GUARD1 ASSY	AWX9174
	6	INTERFACE ASSY	AWX9148
	7	ICE REG ASSY	AWX9149
	8	B REG ASSY	AWX9150
	9	B DIODE ASSY	AWX9171
	10	REG ASSY	AWX9152
	11	HDMI NETWORK ASSY	See Contrast table (2)
⚠	12	Power Transformer (T1501)	ATS7422
⚠	13	FUSE 1A (FU13,FU14,FU21,FU22)	REK1142
⚠	14	FUSE 1.25A (FU11,FU12,FU15,FU31,FU32)	REK1143
⚠	15	FUSE (FU51: 3A)	REK1147
⚠	16	FUSE (FU41: 4A)	REK1149
⚠	17	FUSE (FU61,FU62: 10A)	REK1154
	18	22FFC/60V J10)	ADD7655
	19	15FFC/60V (J13)	ADD7660
	20	27P FFC/60V (J15)	ADD7662
	21	19P FFC/60V (J16)	ADD7663
	22	5P Shielded Cable (Y19)	ADX7621
	23	Housing Assy (Y23)	ADX7623
NSP	24	Under Base 81	ANA7210
	25	PCB Angle 45	ANG7406
NSP	26	Transistor Holder	ANG7543
NSP	27	Panel Stay 81	ANG7619
	28	DSP Shieled 81	ANG7622
	29	Trans Flame 81	ANG7623
	30	Support Plate 81	ANG7625
	31	REG Assy Plate 81	ANG7627
	32	REG Heatsink 81	ANH7204
	33	PCB Mold	AMR2533
	34	FFC Cushion	AEB7404
	35	PCB Holder	AEC7057
	36	Push Rivet	AEC7071
	37	Reuse Clamp	AEC7621
	38	Sheet	AEE7034
	39	Side Clamp	DEC2007
	40	Locking Card Spacer	PNW2917
NSP	41	PC Support	VEC1749
	42	Screw	ABA1052
	43	Screw 4 x 12	ABA7109
	44	Screw 3 x 10	ABA7134
	45	Screw	BBZ30P060FTC
	46	Screw	BBZ30P080FCC
	47	Screw	BBZ30P180FCC
	48	Screw	IBP30P090FCC
	49	Washer	WH40FNI

(2) CONTRAST TABLE

SC-07/KUXJ/CA and SC-05/KUXJ/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-07/KUXJ/CA	SC-05/KUXJ/CA
	2	D-MOTHER ASSY	AWX9136	AWX9201
	11	HDMI NETWORK ASSY	AWX9135	AWX9190

9.4 REAR PANEL SECTION


A
B
C
D
E
F
9
G
2
H
J
7
26
REG
CN7602 (BLUE)
D-MOTHER
CN2001
41
52
52
S
10
24
A
12
13
U
53
T
6
41
15
F
G
REG
CN7502 (RED)
I
R
O
53
47
5
59
3
45
25
44
50
N
4
42
22
14
16
17
INTERFACE
CN7042
INTERFACE
CN7041
64
59
63
Refer to
"9.5 FRONT
PANEL SECTION"
(*b)
21
E
20
F
G
19
D
23
K
11
I
42
(RED)
29
ICE REG
CN7302 (RED)
INTERFACE
CN7032
INTERFACE
CN7031
51
34
8
P
H
60
46
48
48
A
60
61
60
57
60
60
I
27
1
Q
59
62
J
55
32
40
33
SC-05/KUXJ/CA
only
39
56
28
31
38
30
59
37
K
J
58
B-REG
CN7303
54
35
18
INTERFACE
CN7051
49
59
43
58
37
ICE REG CN7251 (BLUE)
ICE REG CN7271
ICE REG CN7241
36
37
59
58
NON-CONTACT
SIDE
CONTACT SIDE

REAR PANEL SECTION PARTS LIST

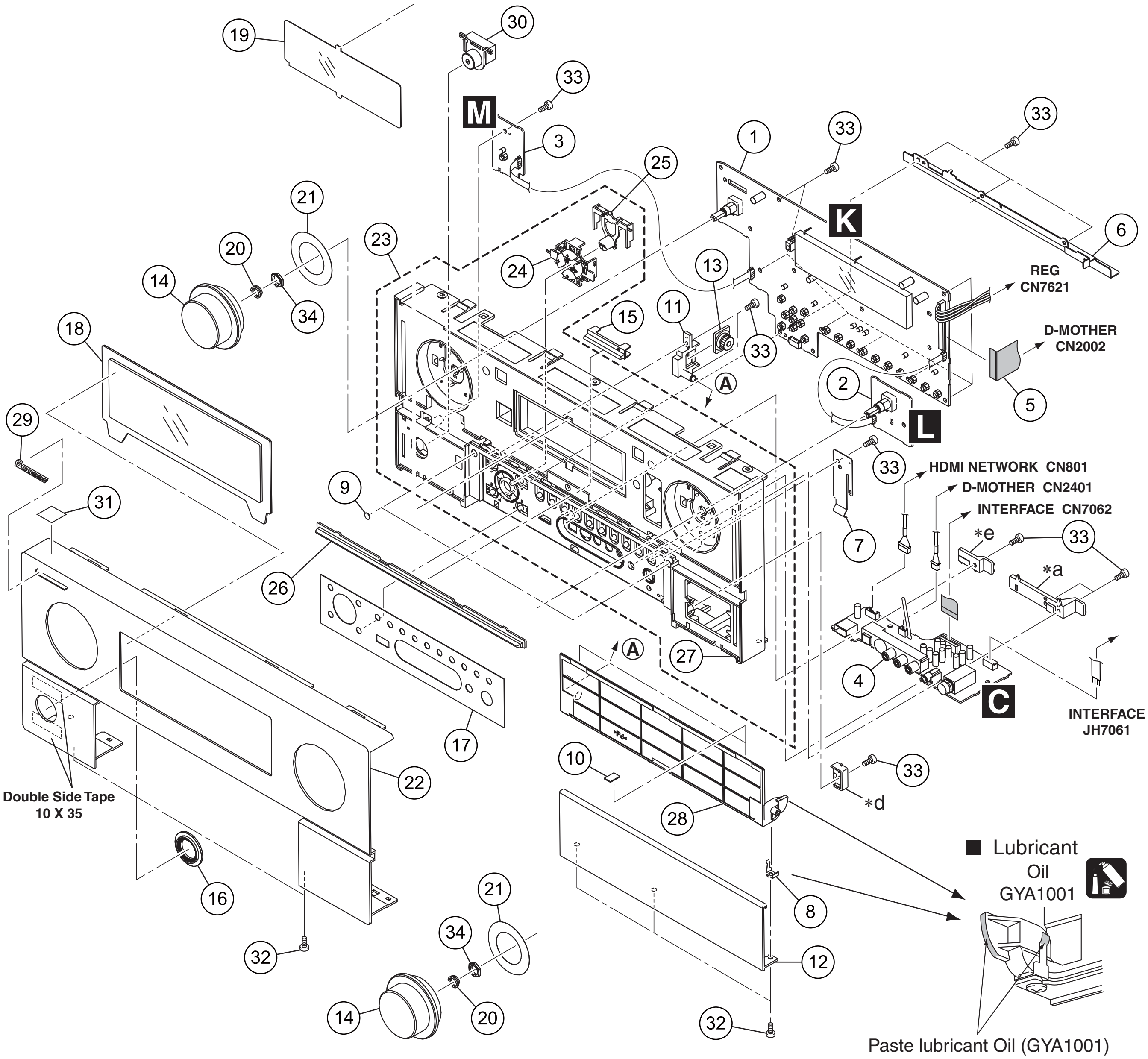
Mark	No.	Description	Part No.
	1	ICEPOWER AMP Assy	AWH7015
	2	COMPOSITE S ASSY	AWX9144
	3	ICE BUFFER ASSY	AWX9145
	4	PRE BRIDGE ASSY	AWX9146
	5	ICE SHIELD ASSY	AWX9173
⚠	6	PRIMARY ASSY	AWX9154
	7	V-BRIDGE ASSY	AWX9161
	8	ICE INTERFACE ASSY	AWX9137
	9	COMPONENT ASSY	See Contrast table (2)
	10	ZOUT ASSY	AWX9143
	11	FRONT BRIDGE ASSY	AWX9155
	12	AUDIO ASSY	AWX9139
	13	PRIMARY GUARD ASSY	AWX9172
	14	FM/AM TUNER UNIT	AXX7250
⚠	15	FUSE (FU1:10A)	VEK1029
	16	21P FFC/60V (J2)	ADD7645
	17	19P FFC/60V (J3)	ADD7646
	18	17P FFC/60V (J4)	ADD7647
	19	13P FFC/60V (J5)	ADD7648
	20	17P FFC/60V (J6)	ADD7649
	21	9P FFC/60V (J7)	ADD7650
	22	11P FFC/60V (J8)	ADD7651
	23	9P FFC/60V (J9)	ADD7652
	24	11FFC/60V (J11)	ADD7658
	25	19FFC/60V (J12)	ADD7659
	26	16FFC/60V (J14)	ADD7661
	27	4P Housing Assy (Y20)	ADX7622
	28	6P Housing Assy (Y22)	ADX7655
	29	6P Housing Assy (Y23)	ADX7656
	30	2P Housing Assy (Y24)	ADX7657
	31	4P Housing Assy (Y25)	ADX7677
⚠	32	DC Fan Motor	AXM7040
	33	Rear Panel	See Contrast table (2)
NSP	34	ICE COVER 81	ANF7047
NSP	35	ICE BOX 81	ANF7052
NSP	36	Heatsink 81	ANH7202
	37	Insulator ICE	AMR7523
	38	PCB Mold	AMR7536
	39	Damper Bushing	AEB7396
	40	Cushion 5 x 8	AEB7397
	41	Push Rivet	AEC7071
	42	PCB Spacer	AEC7080
	43	Card Spacer	AEC7133
	44	Nylon Rivet	AEC7406
	45	Primary Barrier	AEC7569
	46	SP Sheet 81	AEC7599
	47	Card Spacer 18K	AEC7613
	48	Cushion Circle 14B	AED7081
	49	Radiation Sheet A	AEE7064
	50	Shield Case	AMR7526
NSP	51	PCB Holder	PNW2100
NSP	52	Spacer 40	PNW2488
NSP	53	PCB Holder	REC1220
	54	Cushion 11 x 7	AED7092
	55	Screw 3 x 10	ABA7134
	56	Screw	ABA7146
	57	Terminal Screw	AKE-031-0
	58	Screw	BBZ30P060FCC
	59	Screw	BBZ30P080FCC
	60	Screw	BBZ30P080FTB
	61	Screw	BBZ30P100FCC
	62	Screw	BBZ30P140FCC
	63	Screw	PMH30P080FCC
	64	Label	VRW1629

(2) CONTRAST TABLE

SC-07/KUXJ/CA and SC-05/KUXJ/CA are constructed the same except for the following:

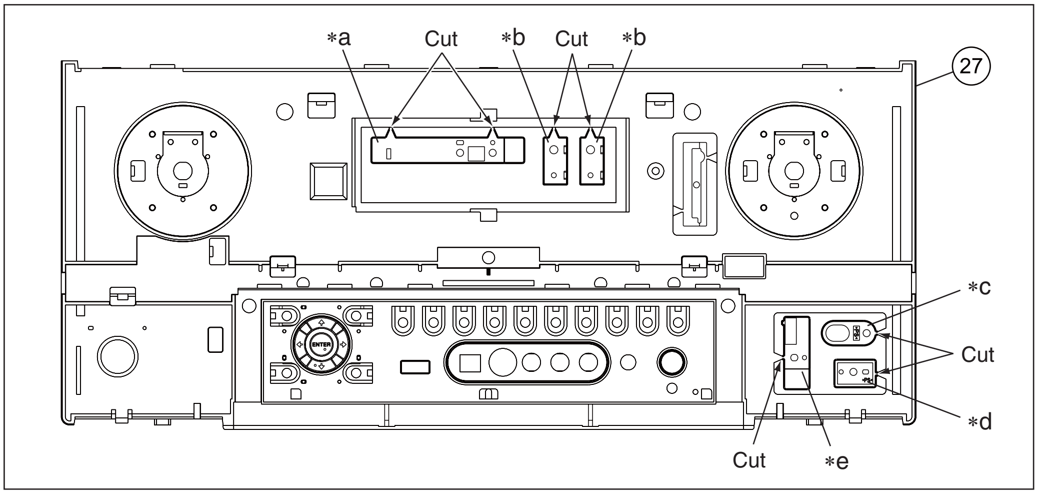
Mark	No.	Symbol and Description	SC-07/KUXJ/CA	SC-05/KUXJ/CA
	9	COMPONENT ASSY	AWX9141	AWX9211
	33	Rear Panel	ANC8525	ANC8532

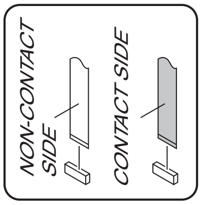
9.5 FRONT PANEL SECTION


19
30
33
M
3
1
33
33
25
21
23
K
6
20
24
13
REG
CN7621
14
34
15
11
33
D-MOTHER
CN2002
18
A
2
5
29
L
33
HDMI NETWORK CN801
D-MOTHER CN2401
9
INTERFACE CN7062
31
7
*e
33
*a
26
A
27
4
C
INTERFACE
JH7061
17
10
33
22
*d
28
Double Side Tape
10 X 35
16
21
8
34
32
12
14
20
32

■ Lubricant
Oil
GYA1001

Paste lubricant Oil (GYA1001)
to Earth Spring and Door Base.


*a
Cut
*b
Cut
*b
27
ENTER
*c
Cut
*d
Cut
*e


NON-CONTACT SIDE
CONTACT SIDE

FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DISPLAY ASSY	See Contrast table (2)
	2	VOL ASSY	AWX9159
	3	POWER SW ASSY	AWX9160
	4	FRONT IN ASSY	AWX9142
	5	29FFC/60V (J18)	ADD7665
	6	Panel Beam 81	ANG7620
	7	Door Spring	ABK7061
	8	Earth Spring 81	ABK7067
	9	Cushion Circle 6B	AED7083
	10	Cushion 11 x 7	AED7092
	11	Door Shaft 60	AMR7531
	12	Door Panel 07KU	ANB7474
	13	Damper Assy	AXA7156
	14	Vol.Knob B	AAA7052
	15	IB Lens V5SEL	AAK8430
	16	Power Ring B	AAK8431
	17	Door Sheet 07KU	AAK8438
	18	Display Panel 07KU	AAK8441
	19	Filter 07KU	AAK8443
	20	Vol Ring 60	ABH7249
	21	Knob Spacer 74	AEC7558
	22	Front Panel	See Contrast table (2)
	23	P Base 07KU Assy	AZN8037
NSP	24	+-Button 81	AAD7788
NSP	25	Enter Button 81	AAD7789
	26	Center Lens V5SH	AAK8428
NSP	27	Panel Base 07KU	AMB7987
	28	Door Base 81	AMR7540
	29	Pioneer Badge G	VAM1159
	30	STDBY BTN 915K Assy	XAD3216
NSP	31	Energy Star Label	AAX8022
	32	Screw	BBZ30P080FTB
	33	Screw	BBZ30P100FNI
	34	Nut	NK90FTC

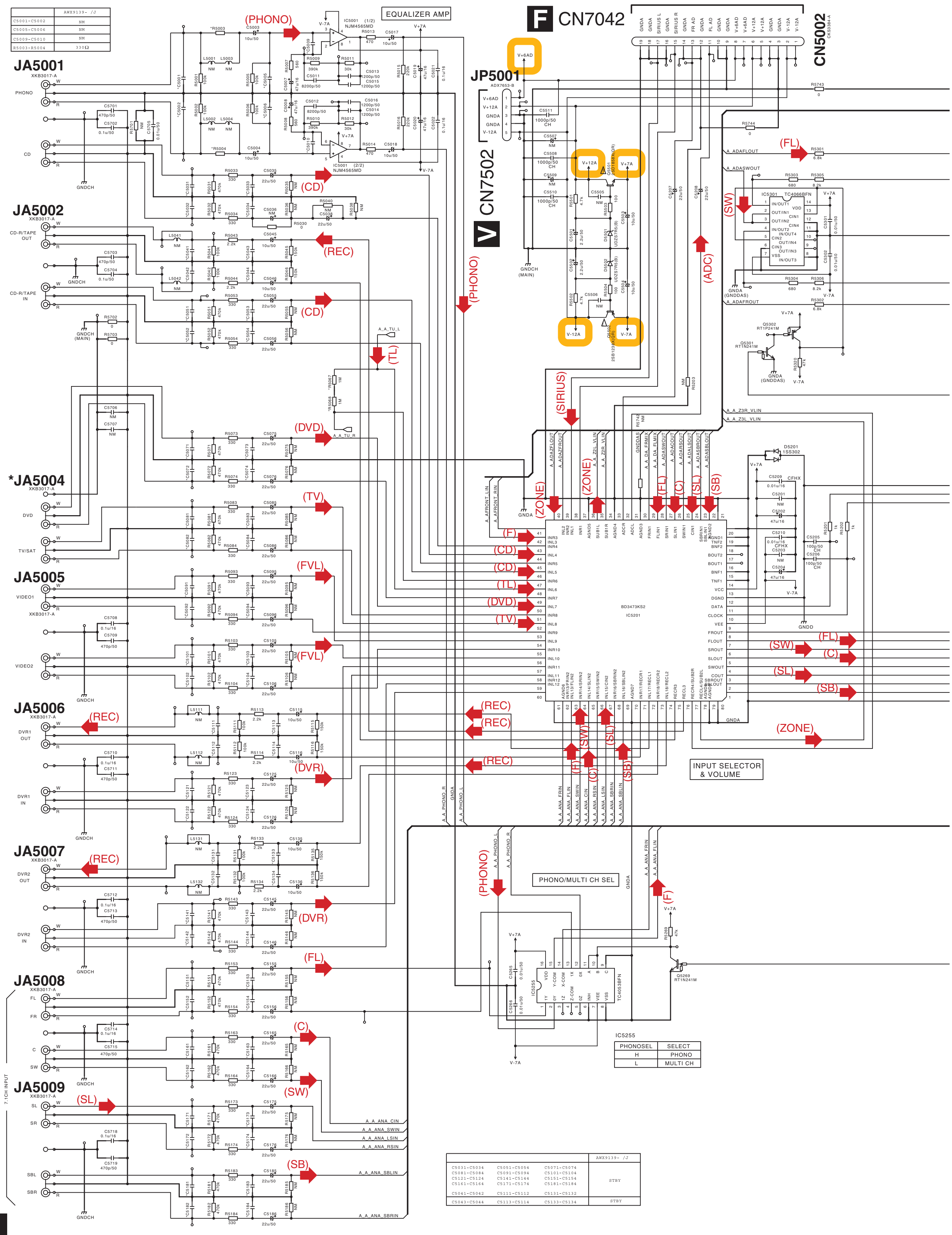
(2) CONTRAST TABLE

SC-07/KUXJ/CA and SC-05/KUXJ/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-07/KUXJ/CA	SC-05/KUXJ/CA
	1	DISPLAY ASSY	AWX9158	AWX9238
	22	Front Panel	ANB7472	ANB7486

10. SCHEMATIC DIAGRAM

10.1 AUDIO ASSY


A
B
C
D
E
F
JA5001
XKB3017-A
PHONO
CD
JA5002
XKB3017-A
CD-R/TAPE OUT
CD-R/TAPE IN
*JA5004
XKB3017-A
DVD
TV/SAT
JA5005
VIDEO1
XKB3017-A
VIDEO2
JA5006
XKB3017-A
DVR1 OUT
DVR1 IN
JA5007
XKB3017-A
DVR2 OUT
DVR2 IN
JA5008
XKB3017-A
FL
FR
C
SW
JA5009
XKB3017-A
SL
SR
SBL
SBR
7.1CH INPUT
GNDCH
GNDCH (MAIN)
EQUALIZER AMP
IC5001 (1/2) NJM4565MD
IC5001 (2/2) NJM4565MD
(PHONO)
(CD)
(REC)
(DVD)
(TV)
(FVL)
(DVR)
(FL)
(C)
(SW)
(SL)
(SB)
(TL)
(ZONE)
(SIRIUS)
(ADC)
(F)
F
CN7042
CN5002
CKS3364-A
GNDA
GNDA
SIRIUS L
GNDA
SIRIUS R
GNDA
FR AD
GNDA
FL AD
GNDA
GNDA
V+6AD
V+6AD
V+12A
V+12A
GNDA
GNDA
V-12A
V-12A
JP5001
ADX7653-B
V+6AD
V+12A
GNDA
GNDA
V-12A
V
CN7502
V+12A
V+7A
V-12A
V-7A
Q5501 2SD1858(QR)
Q5502 2SB1238(QR)
D5501 UDZS7R5(B)
D5502 UDZS7R5(B)
IC5301 TC4066BFN
Q5302 RT1P241M
Q5301 RT1N241M
GNDA (GNDDAS)
A_ADAFLOUT
A_ADASWOUT
A_ADAFROUT
A_A_Z3R_VLIN
A_A_Z3L_VLIN
A_A_TU_L
A_A_TU_R
D5201 1SS302
IC5201
BD3473KS2
INPUT SELECTOR & VOLUME
GNDD
PHONO/MULTI CH SEL
IC5255
TC4053BFN
Q5269 RT1N241M
A_A_PHONO_R
A_A_PHONO_L
A_A_ANA_FRIN
A_A_ANA_FLIN
A_A_ANA_CIN
A_A_ANA_SWIN
A_A_ANA_LSIN
A_A_ANA_RSIN
A_A_ANA_SBLIN
A_A_ANA_SBRIN
V+7A
V-7A

	AWX9139- /J
C5001-C5002	NM
C5005-C5006	NM
C5009-C5010	NM
R5003-R5004	330Ω

IC5255 PHONOSEL	SELECT
H	PHONO
L	MULTI CH

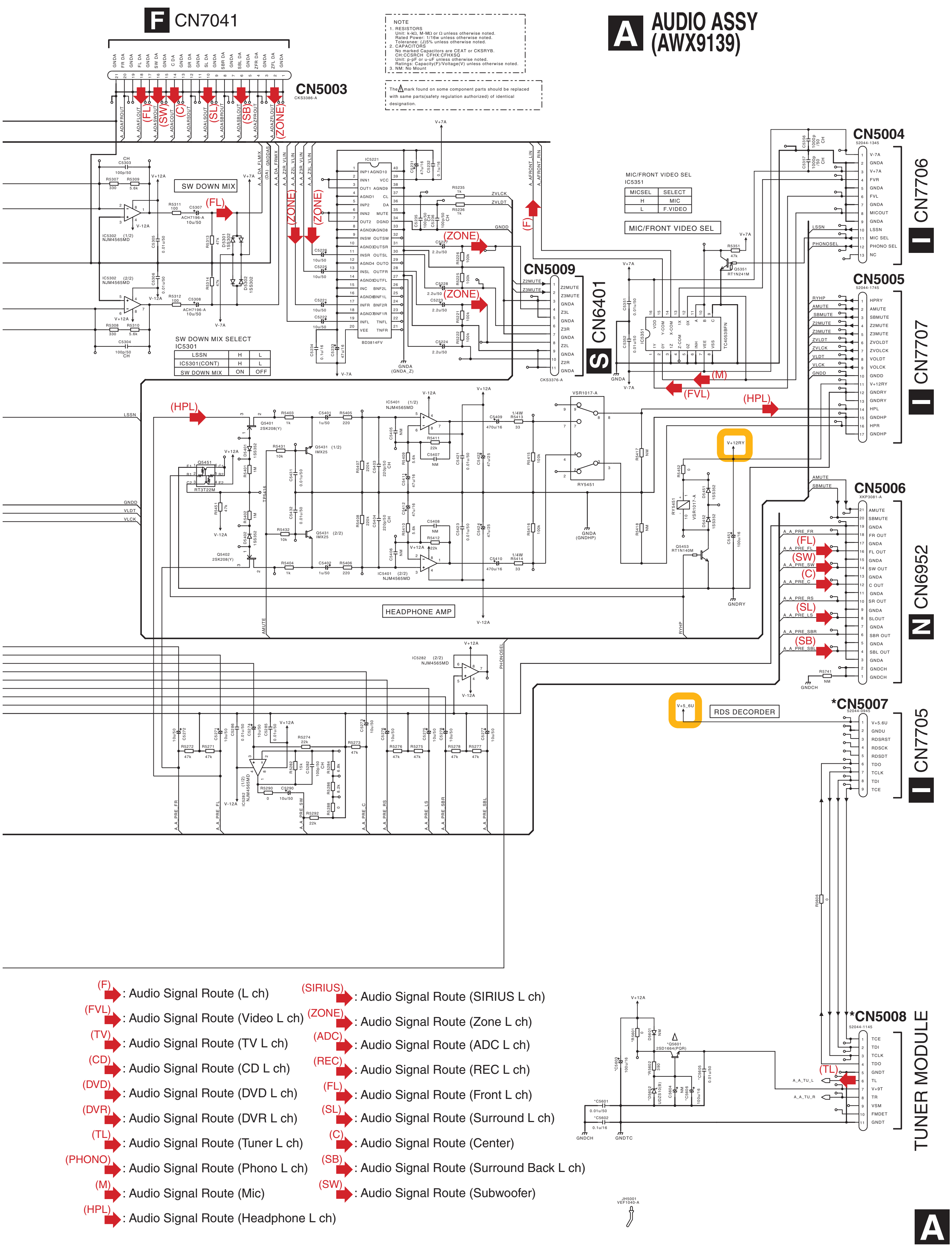
			AWX9139- /J
C5031-C5034 C5081-C5084 C5121-C5124 C5161-C5164 C5041-C5042	C5051-C5054 C5091-C5094 C5141-C5144 C5171-C5174 C5111-C5112	C5071-C5074 C5101-C5104 C5151-C5154 C5181-C5184 C5131-C5132	STBY
C5043-C5044	C5113-C5114	C5133-C5134	STBY

A

A AUDIO ASSY (AWX9139)

NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16w unless otherwise noted.
   Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
   No marked Capacitors are CEAT or CKSRYB.
   CH:CCSRCH CFHX:CFHXSQ
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

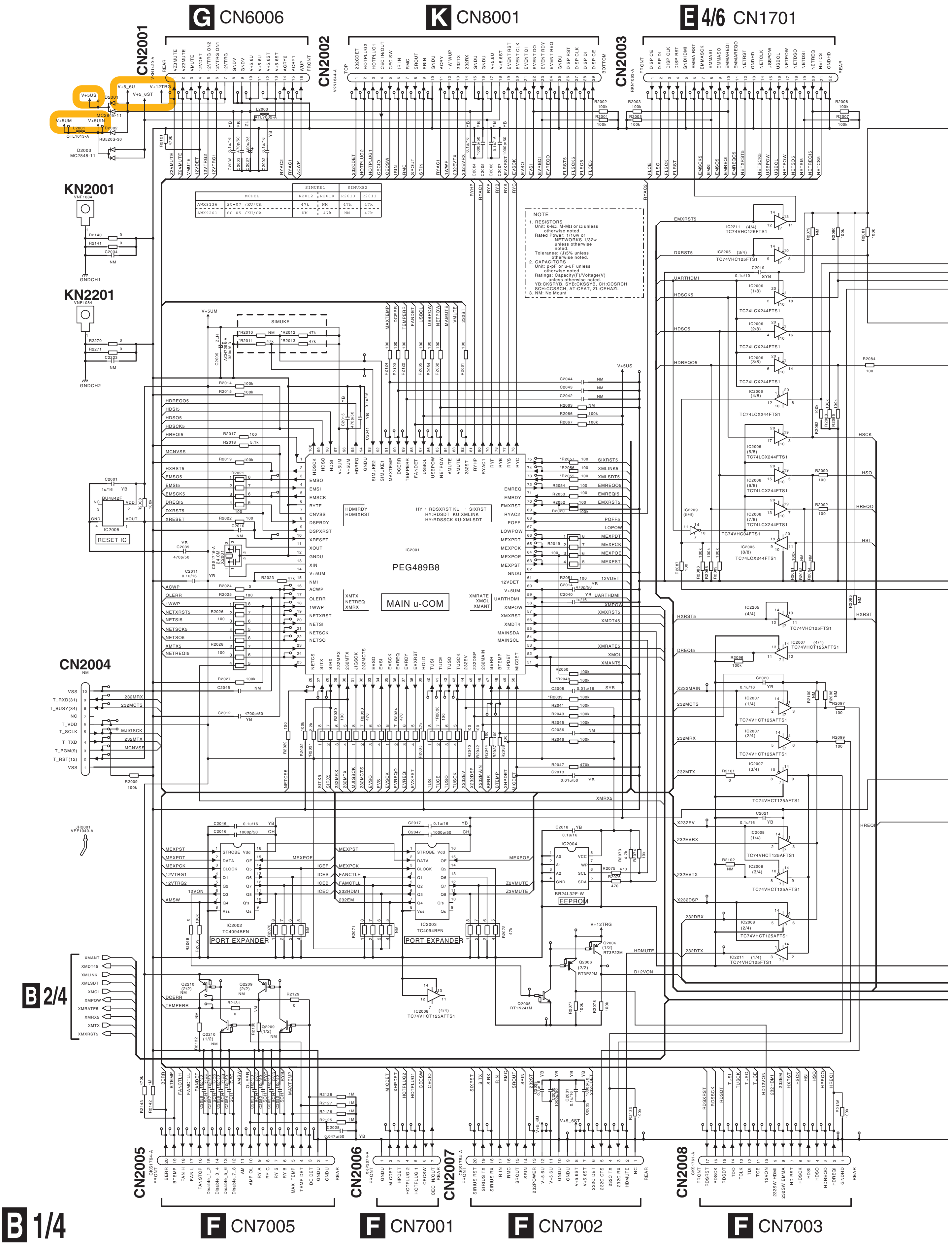


F CN7041
CN5003 CKS3386-A
CN5004 52044-1345
I CN7706
CN5005 52044-1745
I CN7707
CN5006 XKP3081-A
N CN6952
*CN5007 52044-0945
I CN7705
*CN5008 52044-1145
TUNER MODULE
CN5009 CKS3376-A
S CN6401
IC5221 BD3814FV
IC5301
IC5302 NJM4565MD
IC5351 TC4053BFN
IC5401 NJM4565MD
IC5282 NJM4565MD
RY5451 VSR1017-A
SW DOWN MIX
SW DOWN MIX SELECT
MIC/FRONT VIDEO SEL
HEADPHONE AMP
RDS DECORDER
MICSEL SELECT H MIC L F.VIDEO
LSSN H L; IC5301(CONT) H L; SW DOWN MIX ON OFF
(FL) (SW) (C) (SL) (SB) (ZONE) (F) (FVL) (M) (HPL) (TL)
V+12RY
V+5_6U
JH5001 VEF1040-A

(F) : Audio Signal Route (L ch)
(FVL) : Audio Signal Route (Video L ch)
(TV) : Audio Signal Route (TV L ch)
(CD) : Audio Signal Route (CD L ch)
(DVD) : Audio Signal Route (DVD L ch)
(DVR) : Audio Signal Route (DVR L ch)
(TL) : Audio Signal Route (Tuner L ch)
(PHONO) : Audio Signal Route (Phono L ch)
(M) : Audio Signal Route (Mic)
(HPL) : Audio Signal Route (Headphone L ch)

(SIRIUS) : Audio Signal Route (SIRIUS L ch)
(ZONE) : Audio Signal Route (Zone L ch)
(ADC) : Audio Signal Route (ADC L ch)
(REC) : Audio Signal Route (REC L ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center)
(SB) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (Subwoofer)

10.2 D-MOTHER ASSY (1/4)

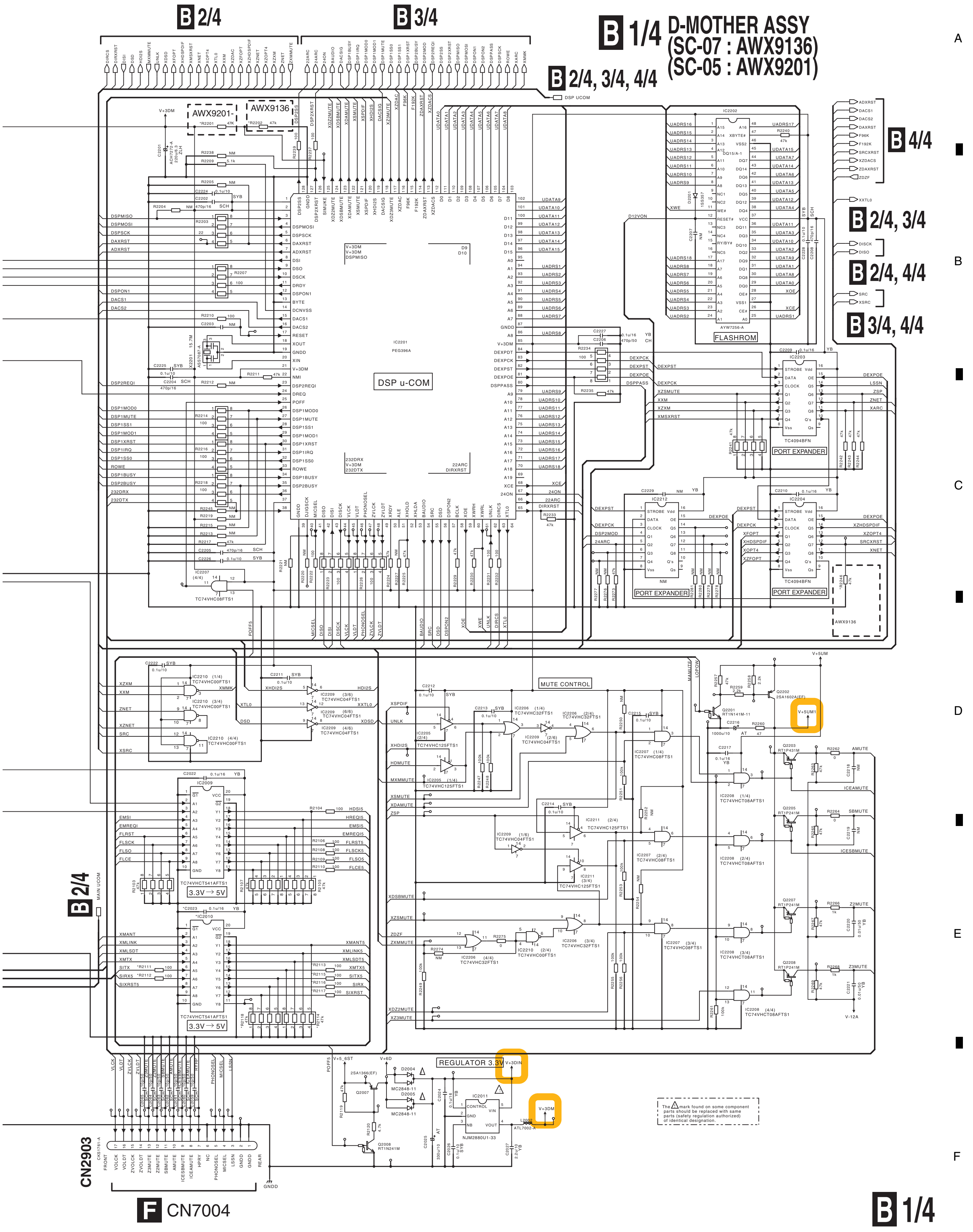

G CN6006
K CN8001
E 4/6 CN1701
CN2001
CN2002
CN2003
KN2001
KN2201
CN2004
B 2/4
CN2005
CN2006
CN2007
CN2008
F CN7005
F CN7001
F CN7002
F CN7003
IC2001
PEG489B8
MAIN u-COM
IC2005
BU4842F
RESET IC
IC2002
TC4094BFN
PORT EXPANDER
IC2003
TC4094BFN
PORT EXPANDER
IC2004
BR24L32F-W
EEPROM
IC2211 (4/4) TC74VHC125FTS1
IC2205 (3/4) TC74VHC125FTS1
IC2006 TC74LCX244FTS1
IC2209 (5/6) TC74VHC04FTS1
IC2205 (4/4) TC74VHC125FTS1
IC2007 (4/4) TC74VHCT125AFTS1
IC2008 TC74VHCT125AFTS1
Q2005 RT1N241M
Q2006 RT3P22M
Q2209
Q2210
D2001 MC2848-11
D2002 RB520S-30
D2003 MC2848-11
L2001 QTL1013-A
L2003 ATL7002-A
X2001 CSS1716-A 24.0M
JH2001 VEF1040-A
V+5US
V+5UM
V+5UIN
V+5_6U
V+5_6ST
V+12TRG
SIMUKE
1
2
3
4
A
B
C
D
E
F

		SIMUKE1		SIMUKE2	
MODEL		R2012	R2010	R2013	R2011
AWX9136	SC-07 /KU/CA	47k	NM	47k	47k
AWX9201	SC-05 /KU/CA	NM	47k	NM	47k

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w or NETWORKS-1/32w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, SYB:CKSSYB, CH:CCSRCH
SCH:CCSSCH, AT:CEAT, ZL:CEHAZL
3. NM: No Mount

B 1/4

B 1/4 D-MOTHER ASSY
(SC-07 : AWX9136)
(SC-05 : AWX9201)

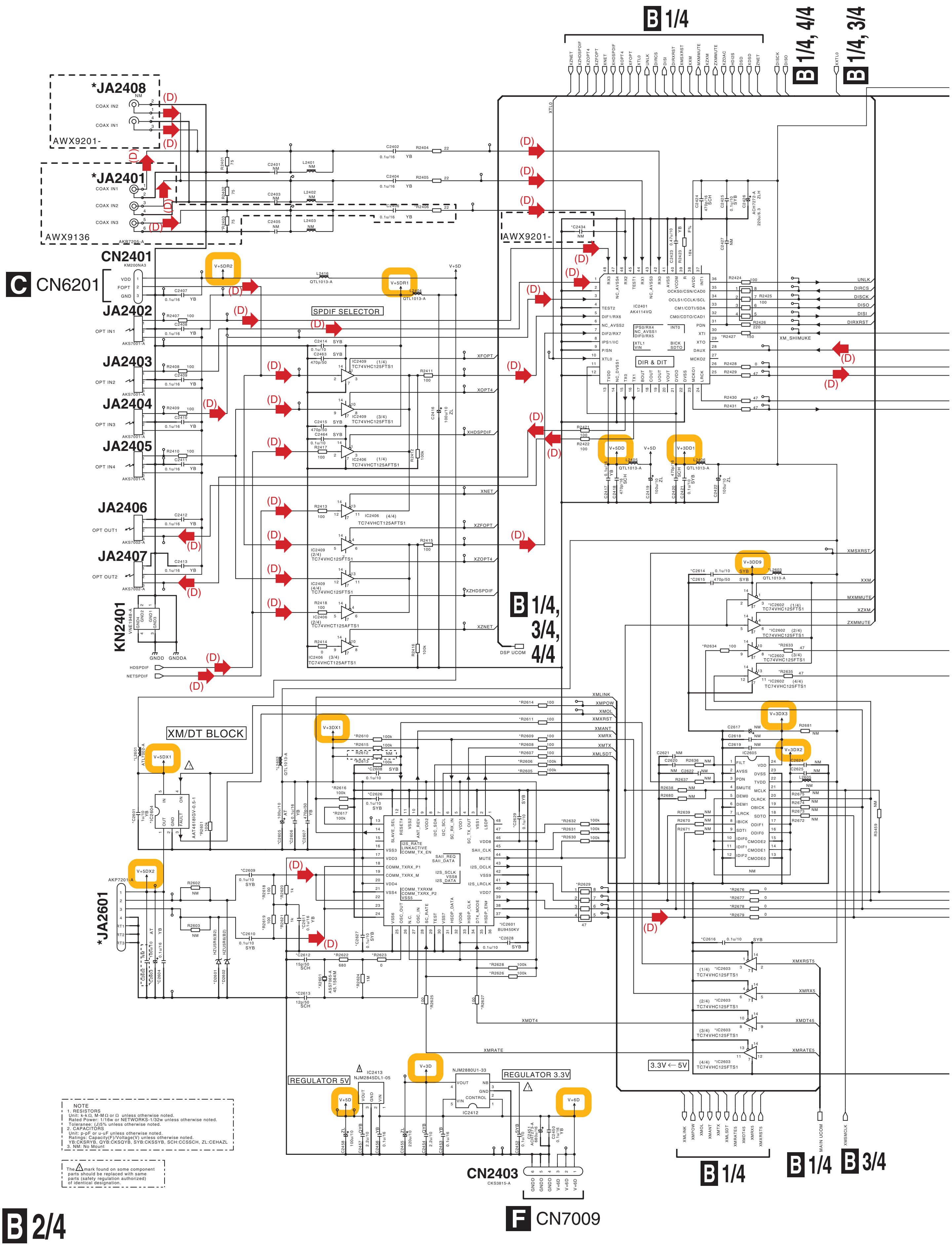


5
6
7
8
A
B
C
D
E
F
B 2/4
B 3/4
B 2/4, 3/4, 4/4
DSP UCOM
B 4/4
B 2/4, 3/4
B 2/4, 4/4
B 3/4, 4/4
AWX9201
AWX9136
IC2201
PEG396A
DSP u-COM
IC2202
AYW7256-A
FLASHROM
IC2203
TC4094BFN
PORT EXPANDER
IC2204
TC4094BFN
PORT EXPANDER
IC2212
PORT EXPANDER
IC2207
TC74VHC08FTS1
IC2210
TC74VHC00FTS1
IC2209
TC74VHC04FTS1
MUTE CONTROL
IC2205
TC74VHC125FTS1
IC2206
TC74VHC32FTS1
IC2211
TC74VHC125FTS1
IC2208
TC74VHCT08AFTS1
Q2201
RT1N141M-11
Q2202
2SA1602A(EF)
Q2203
RT1P431M
Q2205
RT1P241M
Q2207
RT1P241M
Q2208
RT1P241M
V+5UM
V+5UM1
AMUTE
ICEAMUTE
SBMUTE
ICESBMUTE
Z2MUTE
Z3MUTE
V-12A
IC2009
TC74VHCT541AFTS1
3.3V → 5V
IC2010
TC74VHCT541AFTS1
3.3V → 5V
B 2/4
MAIN UCOM
CN2903
CKS1761-A
REGULATOR 3.3V
V+3DIN
V+3DM
IC2011
NJM2880U1-33
Q2007
2SA1366(EF)
Q2008
RT1N241M
D2004
D2005
MC2848-11
L2002
ATL7002-A
V+5_6ST
V+6D
GNDD
FRONT
REAR
F CN7004

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

B 1/4

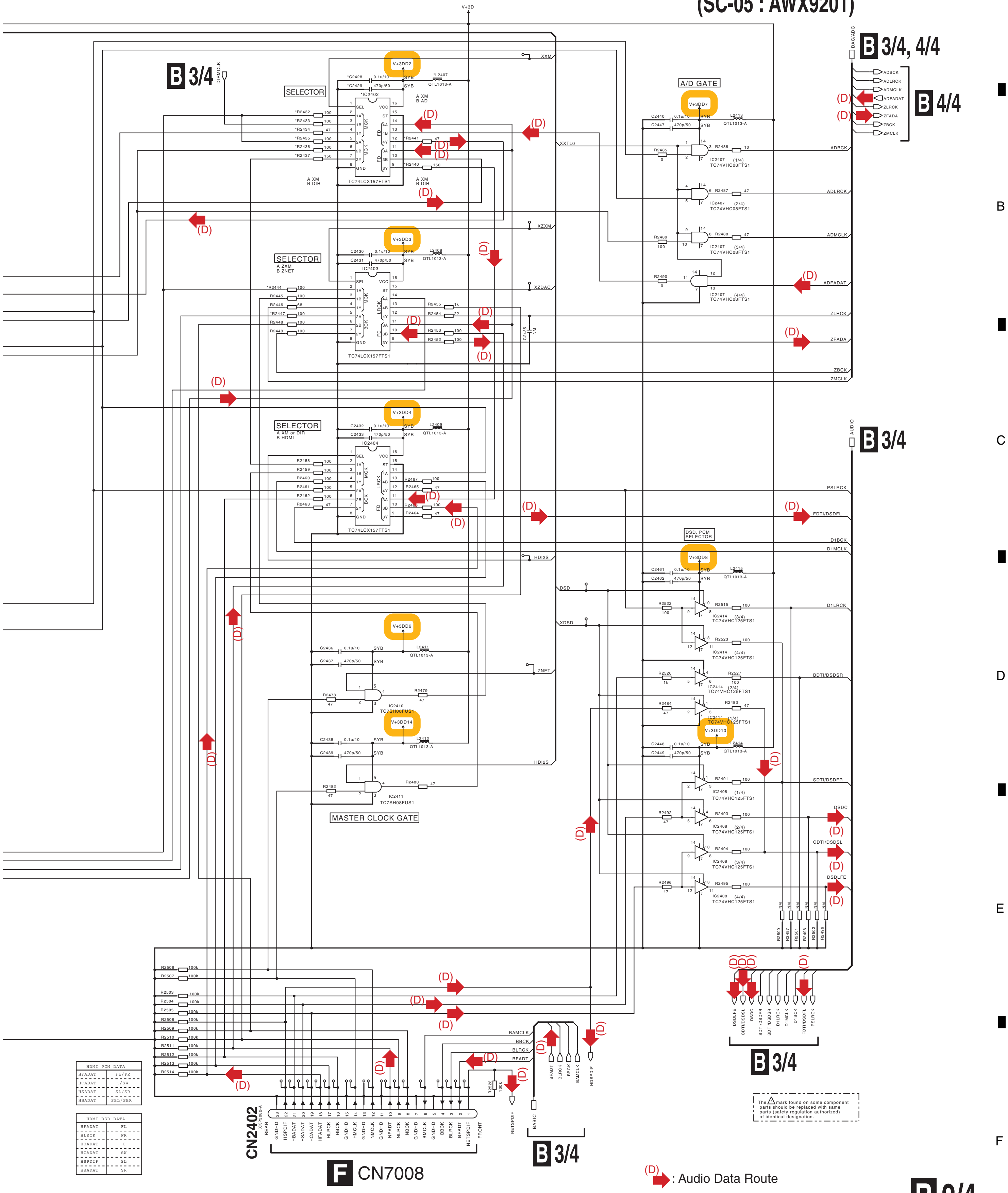
10.3 D-MOTHER ASSY (2/4)


A
B
C
D
E
F
B 1/4
B 1/4, 4/4
B 1/4, 3/4
XZNET
XZHDSPDIF
XZOPT4
XZFOPT
XNET
XHDSPDIF
XOPT4
XFOPT
XTLO
UNLK
DIRCS
DISI
DIRXRST
XMXRST
XXM
XMMUTE
XZXM
XZMMUTE
XZDAC
HD12S
DSD
XDSD
ZNET
DISCK
DISO
XXTL0
*JA2408
COAX IN2
COAX IN1
AWX9201-
*JA2401
COAX IN1
COAX IN2
COAX IN3
AWX9136
AKB7205-A
CN2401
KM200NA3
C CN6201
VDD
FOPT
GND
JA2402
OPT IN1
AKS7001-A
JA2403
OPT IN2
JA2404
OPT IN3
JA2405
OPT IN4
JA2406
OPT OUT1
AKS7002-A
JA2407
OPT OUT2
KN2401
VNE1948-A
GNDD
GNDA
HDSPDIF
NETSPDIF
(D)
V+5DR2
V+5DR1
V+5D
SPDIF SELECTOR
IC2409 TC74VHC125FTS1
IC2406 TC74VHCT125AFTS1
XFOPT
XOPT4
XHDSPDIF
XNET
XZFOPT
XZOPT4
XZHDSPDIF
XZNET
B 1/4, 3/4, 4/4
DSP UCOM
AWX9201-
IC2401
AK4114VQ
DIR & DIT
V+5DD
V+5D
V+3DD1
UNLK
DIRCS
DISCK
DISO
DISI
DIRXRST
XM_SHIMUKE
XMSXRST
V+3DD9
XXM
MXMMUTE
XZXM
ZXMMUTE
IC2602 TC74VHC125FTS1
XMLINK
XMPOW
XMOL
XMXRST
XMANT
XMRX
XMTX
XMLSDT
XM/DT BLOCK
V+3DX1
V+5DX1
V+5DX2
AAT4618IGV-0.5-1
*JA2601
AKP7201-A
IC2601
BU9405KV
V+3DX3
V+3DX2
IC2605
XMRXT5
XMRX5
XMDT45
XMRATE5
IC2603 TC74VHC125FTS1
3.3V ← 5V
XMDT4
XMRATE
REGULATOR 5V
IC2413
NJM2845DL1-05
V+3D
NJM2880U1-33
REGULATOR 3.3V
IC2412
V+5D
V+6D
CN2403
CKS3815-A
GNDD
V+6D
F CN7009
XMLINK
XMPOW
XMOL
XMANT
XMTX
XMLSDT
XMRATE5
XMDT45
XMRX5
XMXRST5
MAIN UCOM
XMSMCLK
B 1/4
B 1/4
B 3/4
B 2/4

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w or NETWORKS-1/32w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB, SYB:CKSSYB, SCH:CCSSCH, ZL:CEHAZL
3. NM: No Mount

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

B 2/4 D-MOTHER ASSY
(SC-07 : AWX9136)
(SC-05 : AWX9201)


B 3/4
DIRMCLK
B 3/4, 4/4
DAC/ADC
B 4/4
ADBCK
ADLRCK
ADMCLK
ADFADAT
ZLRCK
ZFADA
ZBCK
ZMCLK
V+3D
SELECTOR
V+3DD2
IC2402
TC74LCX157FTS1
A XM B AD
A XM B DIR
XXM
XXTLO
L2407
QTL1013-A
A/D GATE
V+3DD7
IC2407
TC74VHC08FTS1
L2413
XZXM
SELECTOR
A ZXM B ZNET
V+3DD3
IC2403
L2408
XZDAC
SELECTOR
A XM or DIR B HDMI
V+3DD4
IC2404
L2409
HDI2S
DSD
XDSD
ZNET
V+3DD6
IC2410
TC7SH08FUS1
V+3DD14
IC2411
MASTER CLOCK GATE
DSD, PCM SELECTOR
V+3DD8
L2415
IC2414
TC74VHC125FTS1
V+3DD10
IC2408
L2414
PSLRCK
FDTI/DSDFL
D1BCK
D1MCLK
D1LRCK
BDTI/DSDSR
SDTI/DSDFR
DSDC
CDTI/DSDSL
DSDLFE
B 3/4
AUDIO
BAMCLK
BBCK
BLRCK
BFADT
BASIC
NETSPDIF
HDSPDIF
CN2402
XKP3082-A
REAR
FRONT
F CN7008
B 3/4
(D)

HDMI PCM DATA	
HFADAT	FL/FR
HCADAT	C/SW
HSADAT	SL/SR
HBADAT	SBL/SBR

HDMI DSD DATA	
HFADAT	FL
HLRCK	FR
HSADAT	C
HCADAT	SW
HSPDIF	SL
HBADAT	SR

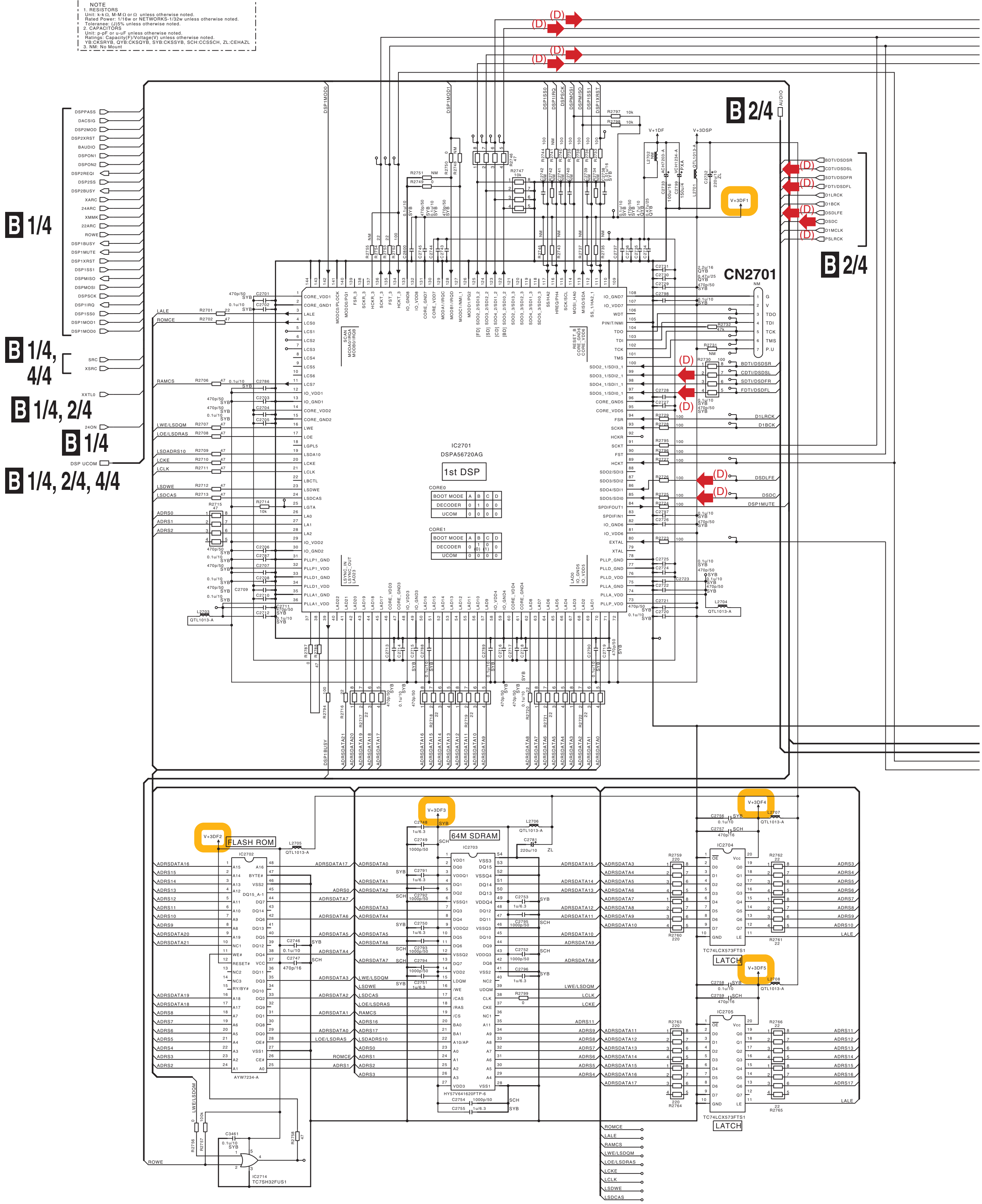
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

(D) : Audio Data Route

B 2/4

10.4 D-MOTHER ASSY (3/4)

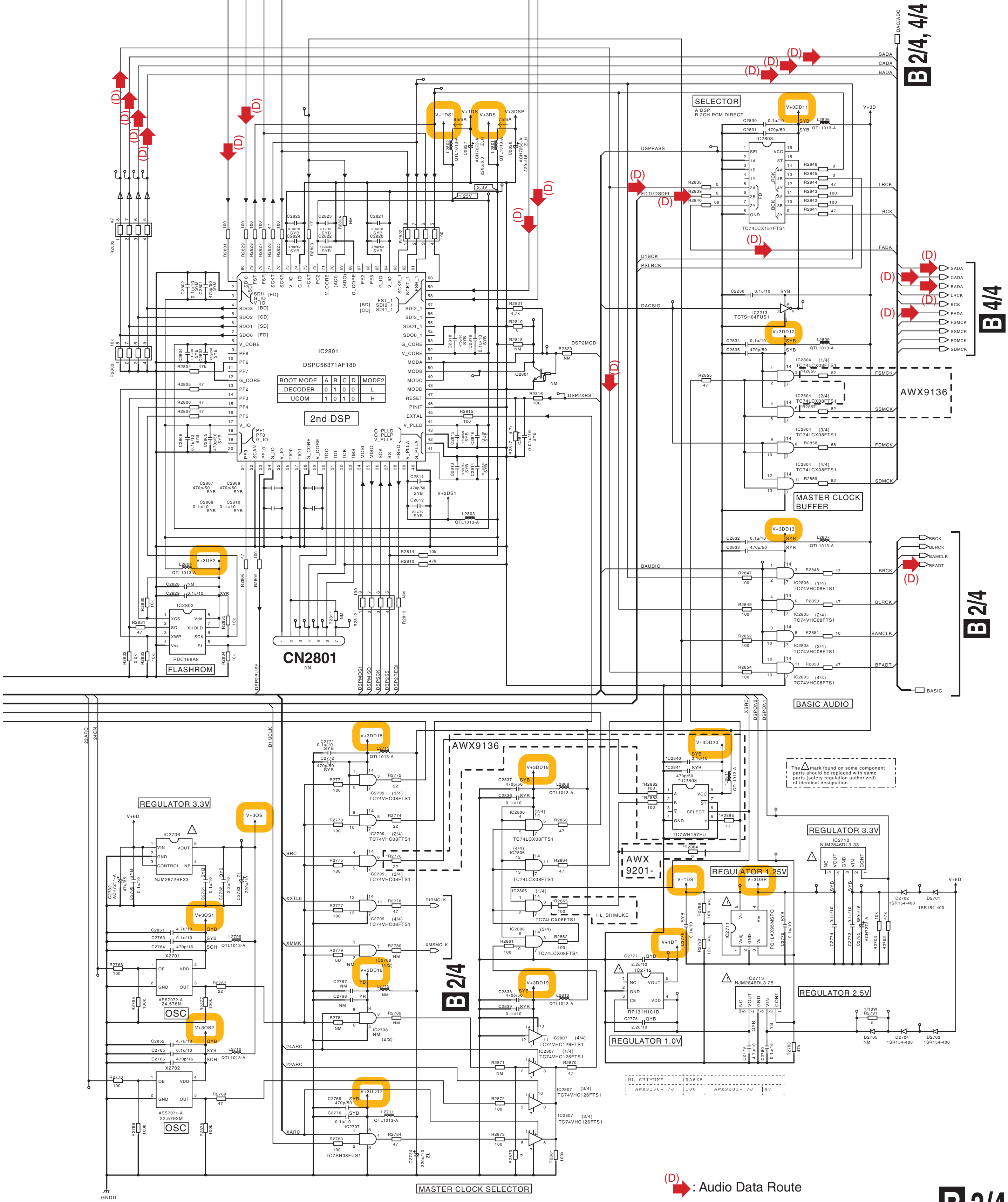
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w or NETWORKS-1/32w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB, SYB:CKSSYB, SCH:CCSSCH, ZL:CEHAZL
3. NM: No Mount



A
B
C
D
E
F
B 1/4
B 1/4, 4/4
B 1/4, 2/4
B 1/4
B 1/4, 2/4, 4/4
B 2/4
B 2/4
(D)
DSPPASS
DACSIG
DSP2MOD
DSP2XRST
BAUDIO
DSPON1
DSPON2
DSP2REQI
DSP2SS
DSP2BUSY
XARC
24ARC
XMMK
22ARC
ROWE
DSP1BUSY
DSP1MUTE
DSP1XRST
DSP1SS1
DSPMISO
DSPMOSI
DSPSCK
DSP1IRQ
DSP1SS0
DSP1MOD1
DSP1MOD0
SRC
XSRC
XXTL0
24ON
DSP UCOM
AUDIO
BDTI/DSDSR
CDTI/DSDSL
SDTI/DSDFR
FDTI/DSDFL
D1LRCK
D1BCK
DSDLFE
DSDC
D1MCLK
PSLRCK
DSP1MUTE
V+1DF
V+3DSP
V+3DF1
V+3DF2
V+3DF3
V+3DF4
V+3DF5
CN2701
IC2701
DSPA56720AG
1st DSP
CORE0
BOOT MODE A B C D
DECODER 0 1 0 0
UCOM 0 0 0 0
CORE1
BOOT MODE A B C D
DECODER 0 1 (0) 0 (1) 0
UCOM 0 0 0 0
IC2702
FLASH ROM
AYW7234-A
IC2703
64M SDRAM
HY57V641620FTP-6
IC2704
TC74LCX573FTS1
LATCH
IC2705
TC74LCX573FTS1
LATCH
IC2714
TC7SH32FUS1
QTL1013-A
ADRSDATA0 – ADRSDATA21
ADRS0 – ADRS17
LALE
ROMCE
RAMCS
LWE/LSDQM
LOE/LSDRAS
LSDADRS10
LCKE
LCLK
LSDWE
LSDCAS
ROWE

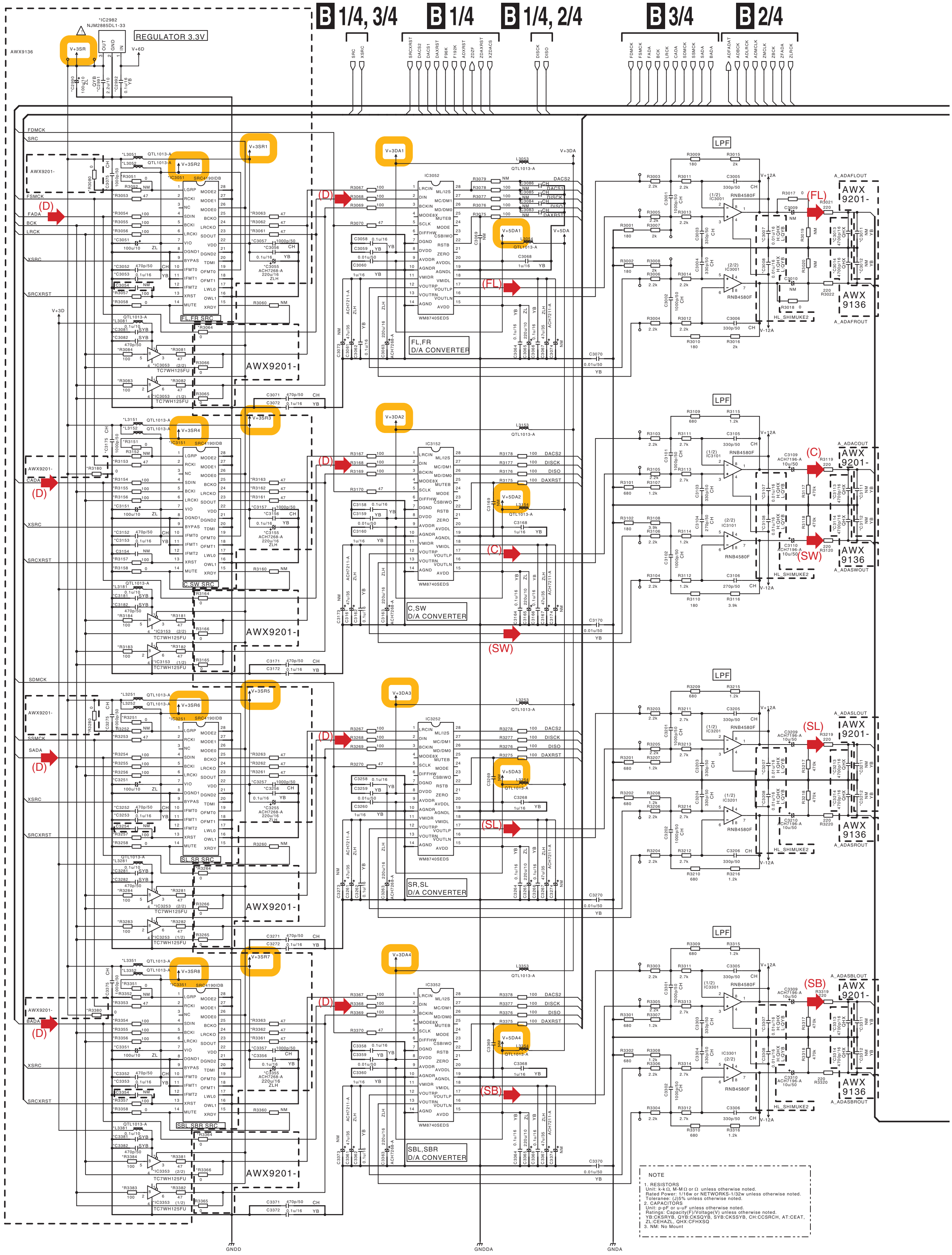
B 3/4

B 3/4 D-MOTHER ASSY
(SC-07 : AWX9136)
(SC-05 : AWX9201)


A
B
C
D
E
F
B 2/4, 4/4
B 4/4
B 2/4
DAC/ADC
SADA
CADA
BADA
LRCK
BCK
FADA
FSMCK
SSMCK
FDMCK
SDMCK
BBCK
BLRCK
BAMCLK
BFADT
BASIC
SELECTOR
A DSP
B 2CH PCM DIRECT
IC2803
TC74LCX157FTS1
DSPPASS
FDTI/DSDFL
D1BCK
PSLRCK
DACSIG
IC2213
TC7SH04FUS1
V+3D
V+3DD11
V+3DD12
V+3DD13
IC2804 TC74LCX08FTS1
AWX9136
MASTER CLOCK BUFFER
BAUDIO
IC2805 TC74VHC08FTS1
BASIC AUDIO
V+1DS1
V+1DS
V+3DS
V+3DSP
IC2801
DSPC56371AF180
BOOT MODE
DECODER
UCOM
2nd DSP
DSP2MOD
DSP2XRST
Q2801
V+3DS2
IC2802
PDC168A8
FLASHROM
CN2801
DSP2BUSY
DSPMOSI
DSPMISO
DSPSCK
DSPSS
DSP2REQ
22ARC
24ON
D1MCLK
REGULATOR 3.3V
IC2706
NJM2872BF33
V+6D
V+3OS
V+3OS1
V+3OS2
X2701
ASS7072-A 24.576M
OSC
X2702
ASS7071-A 22.5792M
GNDD
V+3DD15
IC2709 TC74VHC08FTS1
SRC
XXTL0
XMMK
DIRMCLK
XMSMCLK
V+3DD16
IC2708
24ARC
22ARC
XARC
V+3DD17
IC2707 TC7SH08FUS1
MASTER CLOCK SELECTOR
V+3DD18
IC2806 TC74LCX08FTS1
HL_SHIMUKE
V+3DD20
IC2808 TC7WH157FU
AWX 9201-
IC2807 TC74VHC126FTS1
V+3DD19
V+1DF
IC2712 RP131H101D
REGULATOR 1.0V
REGULATOR 1.25V
V+1DS
V+3DSP
IC2711 PQ011LAX95MSPQ
REGULATOR 3.3V
IC2710 NJM2846DL3-33
IC2713 NJM2846DL3-25
REGULATOR 2.5V
XSRC
DSPON2
DSPON1
D2701 D2702 D2703 D2704 D2705
1SR154-400
The mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.
HL_SHIMUKE R2865
AWX9136-/J 100
AWX9201-/J 47
(D)

(D) : Audio Data Route

10.5 D-MOTHER ASSY (4/4)


B 1/4, 3/4
B 1/4
B 1/4, 2/4
B 3/4
B 2/4
IC2982
NJM2885DL1-33
REGULATOR 3.3V
AWX9136
V+3SR
V+6D
V+3D
AWX9201-
IC3051 SRC4190IDB
IC3151 SRC4190IDB
IC3251 SRC4190IDB
IC3351 SRC4190IDB
FL,FR SRC
C,SW SRC
SL,SR SRC
SBL,SBR SRC
TC7WH125FU
IC3052 WM8740SEDS
IC3152 WM8740SEDS
IC3252 WM8740SEDS
IC3352 WM8740SEDS
FL,FR
D/A CONVERTER
C,SW
D/A CONVERTER
SR,SL
D/A CONVERTER
SBL,SBR
D/A CONVERTER
LPF
RNB4580F
HL_SHIMUKE2
A_ADAFLOUT
A_ADAFROUT
A_ADACOUT
A_ADASWOUT
A_ADASLOUT
A_ADASROUT
A_ADASBLOUT
A_ADASBROUT
AWX9201-
AWX9136
(FL)
(C)
(SW)
(SL)
(SB)
(D)
GNDD
GNDDA
GNDA

NOTE

1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w or NETWORKS-1/32w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB, SYB:CKSSYB, CH:CCSRCH, AT:CEAT, ZL:CEHAZL, QHX:CFHXSQ
3. NM: No Mount

B 4/4

B 4/4 D-MOTHER ASSY
(SC-07 : AWX9136)
(SC-05 : AWX9201)

HL_SHIMUKE2

	C2911	C2912	C2915	C2916	C3007	C3008
AWX9136- /J	0.01u/16 QHX	0.01u/16 QHX	0.01u/16 QHX	0.01u/16 QHX	0.01u/16 QHX	0.01u/16 QHX
AWX9201- /J	0.01u/50 QYB	0.01u/50 QYB	0.01u/50 QYB	0.01u/50 QYB	0.01u/50 QYB	0.01u/50 QYB

	C3107	C3108	C3207	C3208	C3307	C3308
AWX9136- /J	0.01u/16 QHX	0.01u/16 QHX	0.01u/16 QHX	0.01u/16 QHX	0.01u/16 QHX	0.01u/16 QHX
AWX9201- /J	0.01u/50 QYB	0.01u/50 QYB	0.01u/50 QYB	0.01u/50 QYB	0.01u/50 QYB	0.01u/50 QYB

(D) ➡ : Audio Data Route

(ZONE) ➡ : Audio Signal Route (Zone L ch)

(ADC) ➡ : Audio Signal Route (ADC L ch)

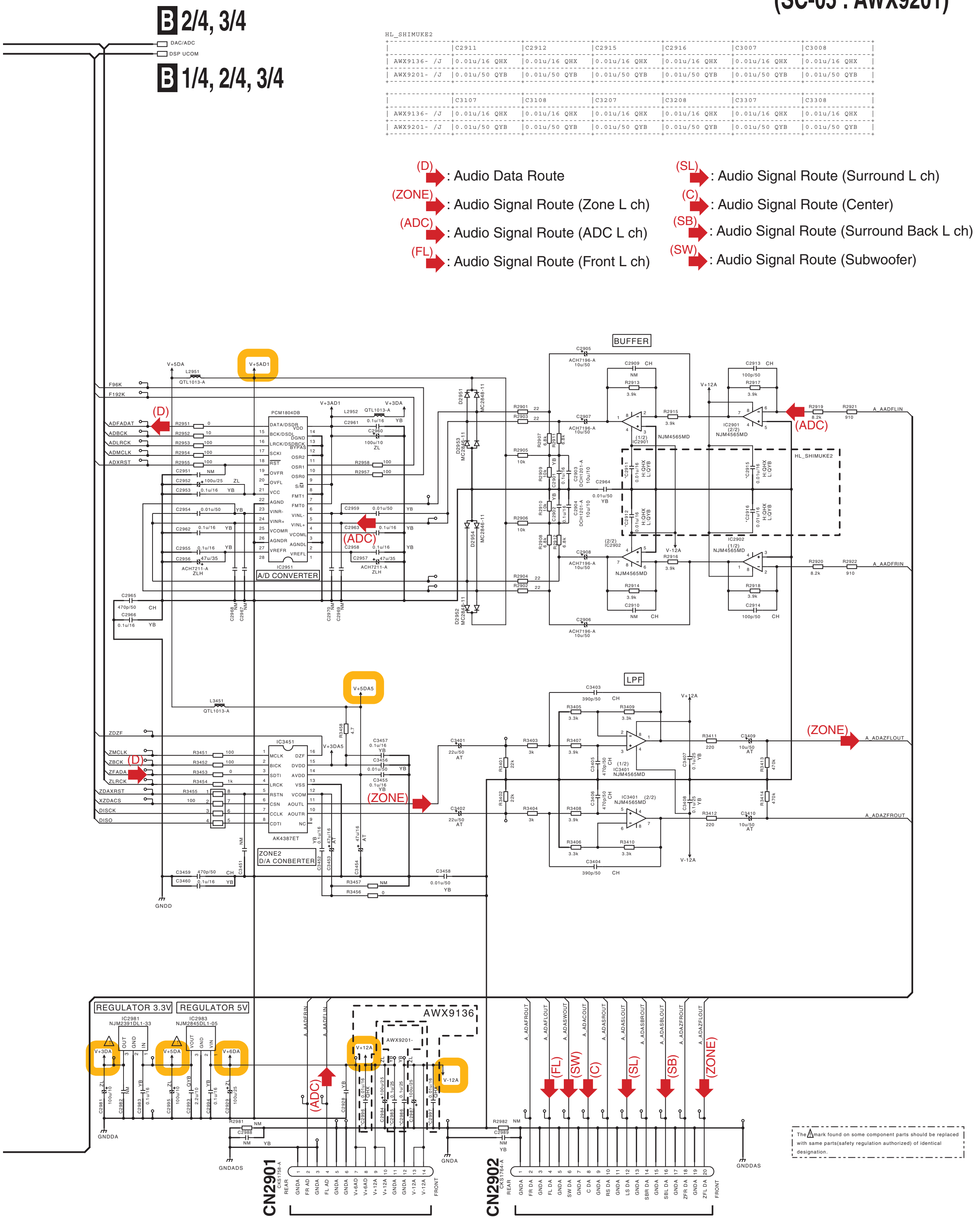
(FL) ➡ : Audio Signal Route (Front L ch)

(SL) ➡ : Audio Signal Route (Surround L ch)

(C) ➡ : Audio Signal Route (Center)

(SB) ➡ : Audio Signal Route (Surround Back L ch)

(SW) ➡ : Audio Signal Route (Subwoofer)

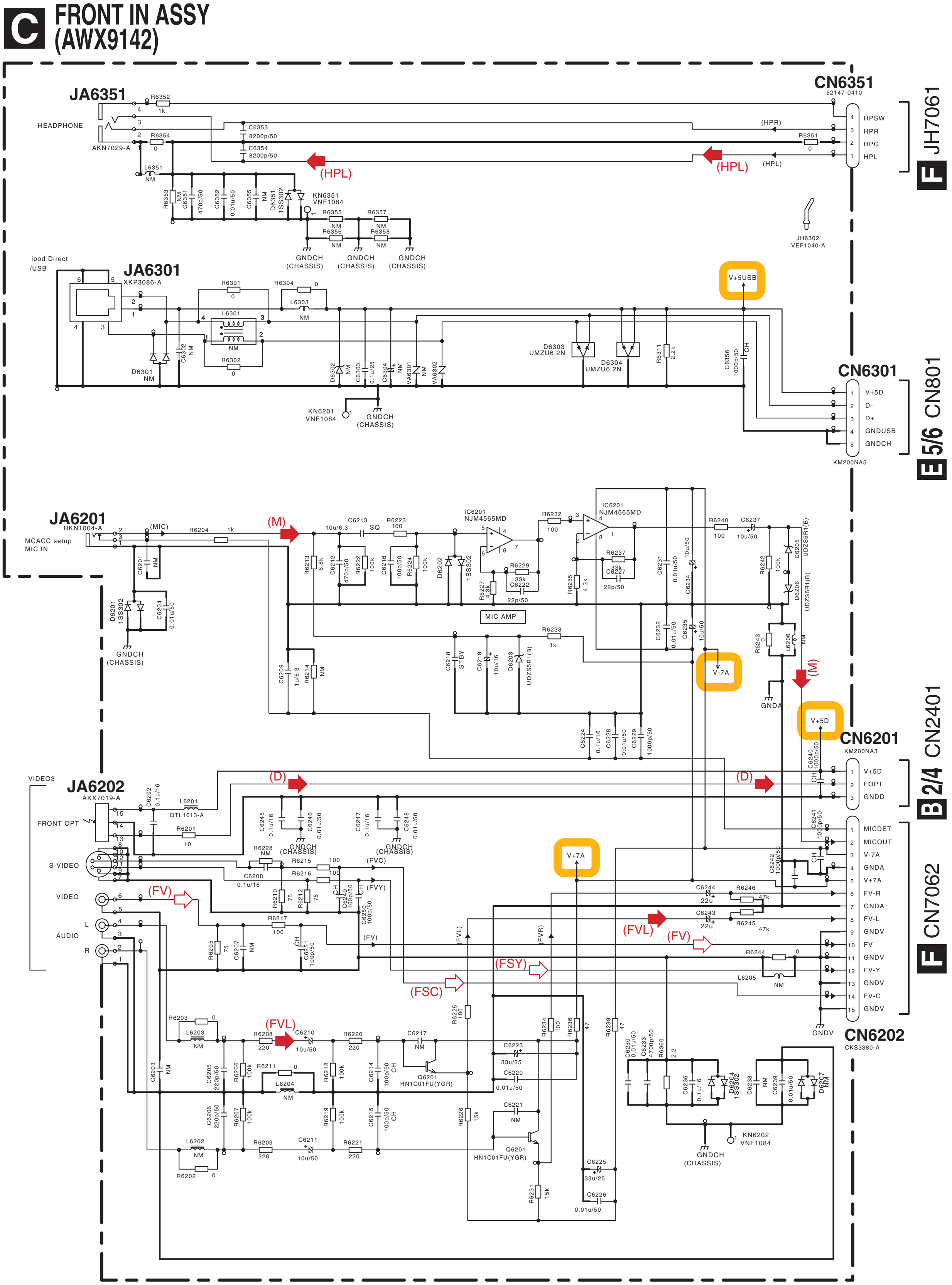

B 2/4, 3/4
DAC/ADC
DSP UCOM
B 1/4, 2/4, 3/4
V+5DA
L2951
QTL1013-A
V+5AD1
F96K
F192K
ADFADAT
ADBCK
ADLRCK
ADMCLK
ADXRST
(D)
PCM1804DB
A/D CONVERTER
IC2951
V+3AD1
V+3DA
L2952
(ADC)
BUFFER
C2905
ACH7196-A
NJM4565MD
IC2901
IC2902
V+12A
V-12A
A_AADFLIN
A_AADFRIN
HL_SHIMUKE2
LPF
L3451
V+5DA5
IC3451
AK4387ET
ZONE2
D/A CONBERTER
ZDZF
ZMCLK
ZBCK
ZFADA
ZLRCK
ZDAXRST
XZDACS
DISCK
DISO
GNDD
(ZONE)
A_ADAZFLOUT
A_ADAZFROUT
IC3401
NJM4565MD
REGULATOR 3.3V
REGULATOR 5V
IC2981
NJM2391DL1-33
IC2983
NJM2845DL1-05
V+3DA
V+5DA
V+6DA
GNDDA
GNDADS
AWX9136
AWX9201-
V+12A
V-12A
A_AADFRIN
A_AADFLIN
A_ADAFROUT
A_ADAFLOUT
A_ADASWOUT
A_ADACOUT
A_ADASLOUT
A_ADASROUT
A_ADASBROUT
A_ADASBLOUT
A_ADAZFROUT
A_ADAZFLOUT
(FL)
(SW)
(C)
(SL)
(SB)
(ZONE)
GNDA
GNDDAS
CN2901
CKS3768-A
CN2902
CKS3764-A
REAR
FRONT

F CN7007

F CN7006

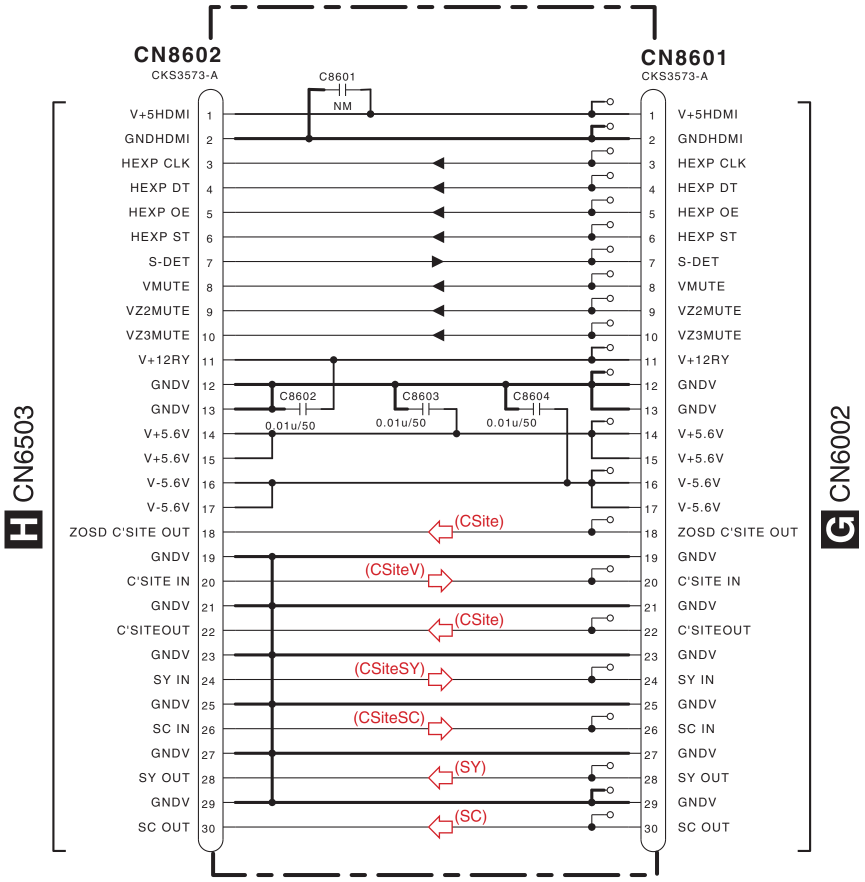
The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

10.6 FRONT IN and V-BRIDGE ASSYS


C
FRONT IN ASSY
(AWX9142)
JA6351
HEADPHONE
AKN7029-A
R6352 1k
R6354 0
C6353 8200p/50
C6354 8200p/50
L6351 NM
(HPL)
(HPR)
R6351 0
CN6351
52147-0410
HPSW
HPR
HPG
HPL
F JH7061
R6353 NM
C6351 470p/50
C6352 0.01u/50
C6355 NM
D6351 1SS302
KN6351 VNF1084
R6355 NM
R6356 NM
R6357 NM
R6358 NM
GNDCH (CHASSIS)
JH6302 VEF1040-A
ipod Direct /USB
JA6301
XKP3086-A
R6301 0
R6304 0
L6303 NM
L6301 NM
R6302 0
C6302 NM
D6301 NM
D6302 NM
C6303 0.1u/25
C6304 NM
VA6301 NM
VA6302
D6303 UMZU6.2N
D6304 UMZU6.2N
R6311 2.2k
C6356 1000p/50 CH
V+5USB
KN6201 VNF1084
CN6301
V+5D
D-
D+
GNDUSB
GNDCH
KM200NA5
E 5/6 CN801
JA6201
RKN1004-A
MCACC setup MIC IN
(MIC)
R6204 1k
(M)
C6201 NM
D6201 1SS302
C6204 0.01u/50
C6213 10u/6.3 SQ
R6223 100
R6213 6.8k
C6212 470p/50
R6222 100k
C6216 100p/50
R6224 100k
D6202 1SS302
STBY
IC6201 NJM4565MD
R6227 4.3k
R6229 33k
C6222 22p/50
MIC AMP
R6232 100
R6235 4.3k
R6237 33k
C6227 22p/50
R6233 1k
C6209 1u/6.3
R6214 NM
C6218
C6219 10u/16
D6203 UDZS5R1(B)
C6231 0.01u/50
C6234 10u/50
C6232 0.01u/50
C6235 10u/50
R6240 100
C6237 10u/50
R6242 100k
D6205 UDZS5R1(B)
D6206 UDZS5R1(B)
R6243 0
L6206 NM
V-7A
V+5D
GNDA
C6224 0.1u/16
C6228 0.01u/50
C6229 1000p/50
CN6201
KM200NA3
C6240 1000p/50 CH
V+5D
FOPT
GNDD
B 2/4 CN2401
VIDEO3
JA6202
AKX7019-A
FRONT OPT
S-VIDEO
VIDEO
AUDIO
L
R
C6202 0.1u/16
L6201 QTL1013-A
R6201 10
(D)
C6245 0.1u/16
C6246 0.01u/50
C6247 0.1u/16
C6248 0.01u/50
R6228 NM
R6215 100
R6216 100
C6208 0.1u/16
(FVC)
(FVY)
(FV)
R6210 75
R6212 75
C6249 100p/50 CH
C6250 100p/50
R6217 100
R6205 75
C6207 NM
C6251 100p/50 CH
(FVL)
(FVR)
(FSY)
(FSC)
V+7A
C6244 22u
R6246 47k
C6243 22u
R6245 47k
R6244 0
L6205 NM
C6241 1000p/50 CH
C6242 1000p/50 CH
MICDET
MICOUT
V-7A
GNDA
V+7A
FV-R
GNDA
FV-L
GNDV
FV
GNDV
FV-Y
GNDV
FV-C
GNDV
F CN7062
CN6202
CKS3380-A
R6203 0
L6203 NM
R6208 220
C6210 10u/50
R6220 220
C6217 NM
Q6201 HN1C01FU(YGR)
R6225 100
R6234 100
R6236 47
R6239 47
C6223 33u/25
C6220 0.01u/50
C6203 NM
C6205 220p/50
R6206 100k
R6211 0
L6204 NM
R6218 100k
C6214 100p/50 CH
C6206 220p/50
R6207 100k
R6219 100k
C6215 100p/50 CH
R6226 15k
C6221 NM
Q6201 HN1C01FU(YGR)
L6202 NM
R6202 0
R6209 220
C6211 10u/50
R6221 220
C6225 33u/25
R6231 15k
C6226 0.01u/50
C6230 0.01u/50
C6233 4700p/50
R6360 2.2
C6236 0.1u/16
D6204 1SS302
C6238 NM
C6239 0.01u/50
D6207 NM
KN6202 VNF1084
GNDCH (CHASSIS)

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH
NO MARKED : CKSRYB
3. NM: No Mount

J V-BRIDGE ASSY (AWX9161)


CN8602
CKS3573-A
CN8601
CKS3573-A
C8601
NM
C8602
0.01u/50
C8603
0.01u/50
C8604
0.01u/50
H CN6503
G CN6002
1 V+5HDMI
2 GNDHDMI
3 HEXP CLK
4 HEXP DT
5 HEXP OE
6 HEXP ST
7 S-DET
8 VMUTE
9 VZ2MUTE
10 VZ3MUTE
11 V+12RY
12 GNDV
13 GNDV
14 V+5.6V
15 V+5.6V
16 V-5.6V
17 V-5.6V
18 ZOSD C'SITE OUT
19 GNDV
20 C'SITE IN
21 GNDV
22 C'SITEOUT
23 GNDV
24 SY IN
25 GNDV
26 SC IN
27 GNDV
28 SY OUT
29 GNDV
30 SC OUT
(CSite)
(CSiteV)
(CSite)
(CSiteSY)
(CSiteSC)
(SY)
(SC)

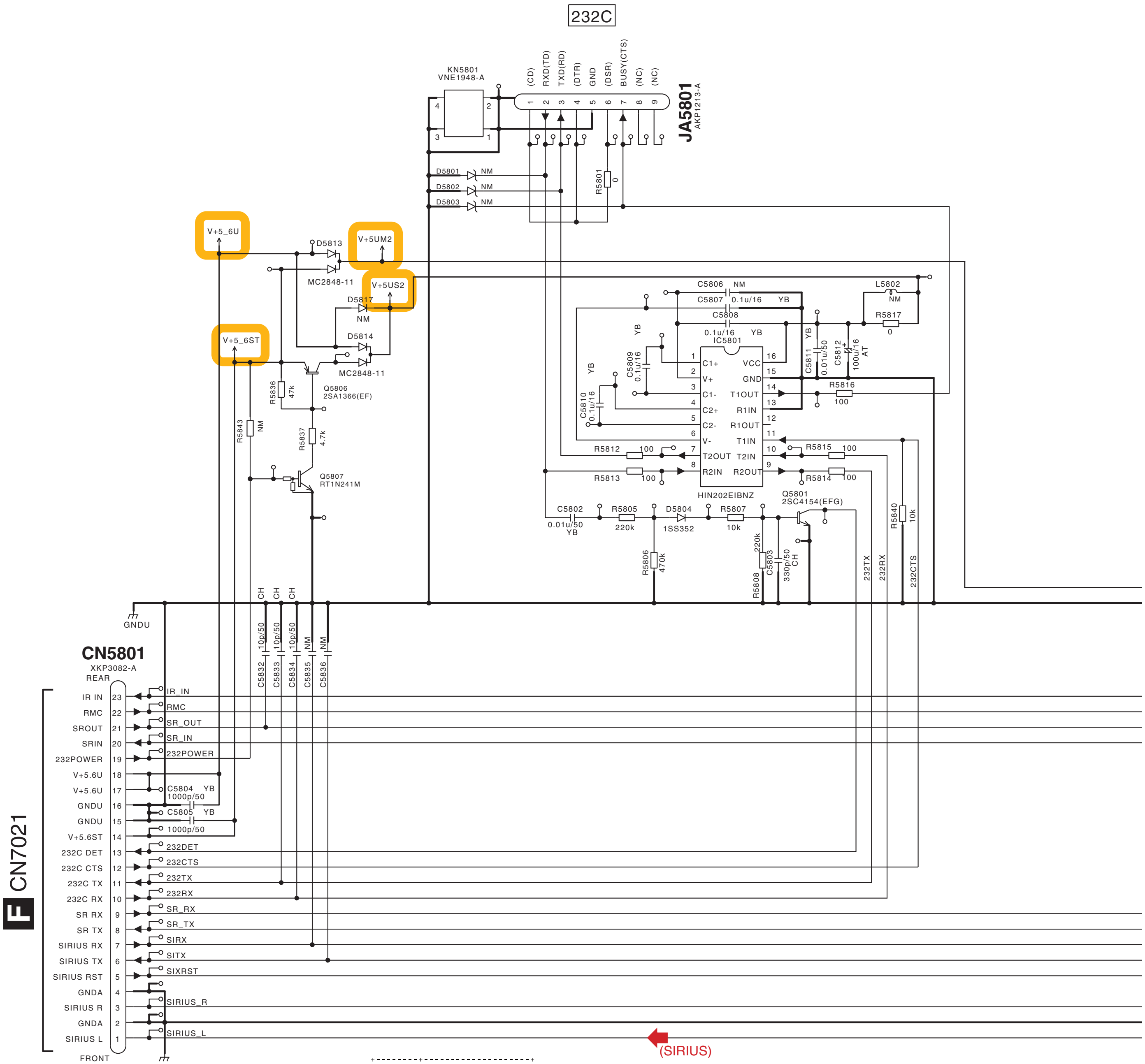
NOTE

1. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
2. NM: No Mount

(FSC) ⇨ : S-Video Signal Route (Front C)
(FSY) ⇨ : S-Video Signal Route (Front Y)
(FV) ⇨ : Video Signal Route (Video)
(D) ➡ : Audio Data Route
(FVL) ➡ : Audio Signal Route (Video L ch)
(M) ➡ : Audio Signal Route (Mic)
(HPL) ➡ : Audio Signal Route (Headphone L ch)

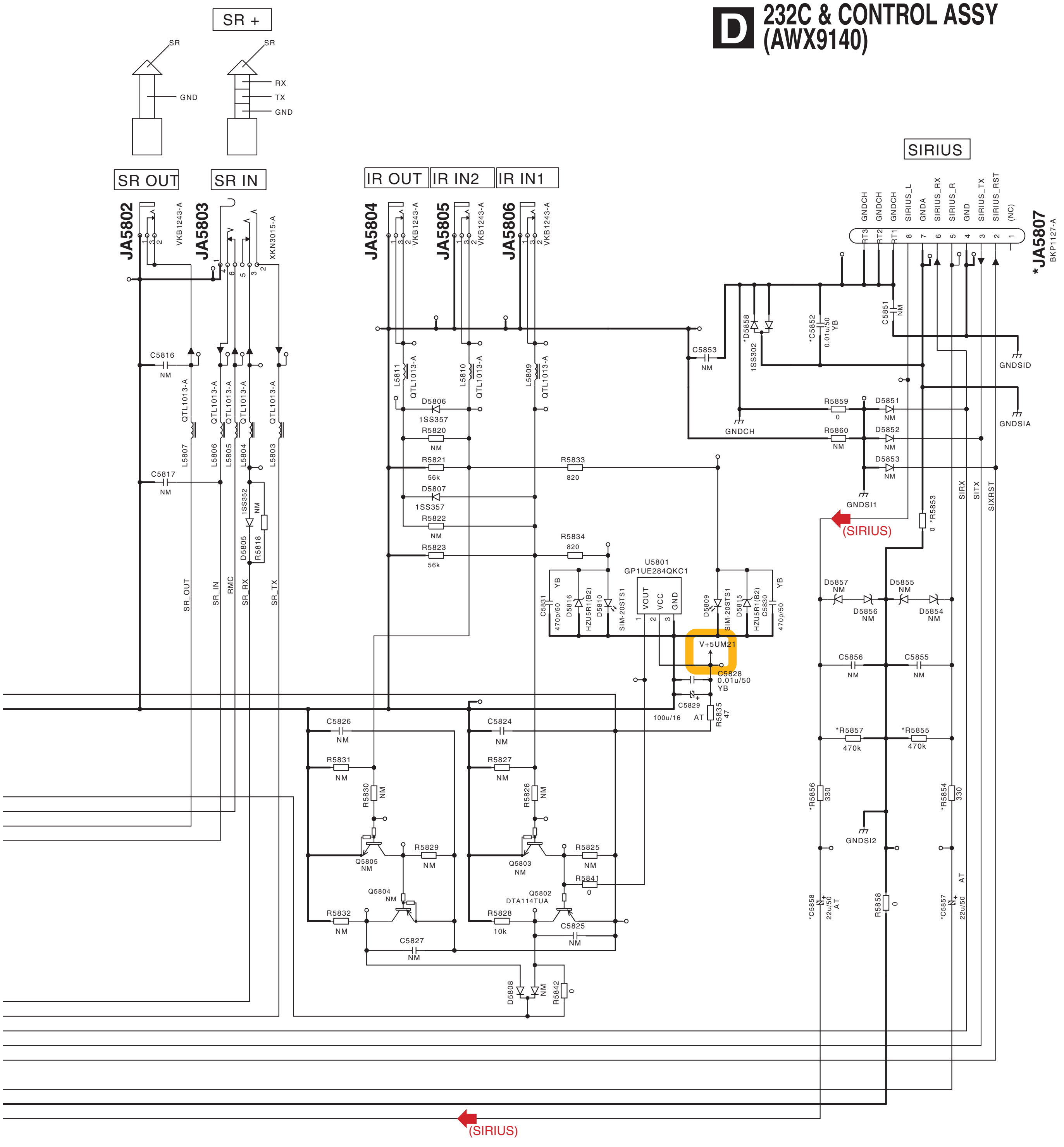
(SC) ⇨ : S-Video Signal Route (C)
(SY) ⇨ : S-Video Signal Route (Y)
(CSiteSC) ⇨ : Video Signal Route (Composite C)
(CSiteSY) ⇨ : Video Signal Route (Composite Y)
(CSiteV) ⇨ : Video Signal Route (Composite Video)
(CSite) ⇨ : Video Signal Route (Composite)

10.7 232C & CONTROL ASSY


232C
KN5801
VNE1948-A
(CD)
RXD(TD)
TXD(RD)
(DTR)
GND
(DSR)
BUSY(CTS)
(NC)
(NC)
JA5801
AKP1213-A
D5801 NM
D5802 NM
D5803 NM
R5801 0
V+5_6U
D5813
MC2848-11
V+5UM2
V+5US2
D5817
NM
D5814
MC2848-11
V+5_6ST
R5836 47k
Q5806
2SA1366(EF)
R5843 NM
R5837 4.7k
Q5807
RT1N241M
C5806 NM
C5807 0.1u/16 YB
C5808 0.1u/16 YB
L5802 NM
R5817 0
IC5801
HIN202EIBNZ
C1+
V+
C1-
C2+
C2-
V-
T2OUT
R2IN
VCC
GND
T1OUT
R1IN
R1OUT
T1IN
T2IN
R2OUT
C5809 0.1u/16 YB
C5810 0.1u/16 YB
C5811 0.01u/50 YB
C5812 100u/16 AT
R5816 100
R5812 100
R5813 100
R5815 100
R5814 100
C5802 0.01u/50 YB
R5805 220k
D5804 1SS352
R5807 10k
Q5801
2SC4154(EFG)
R5806 470k
R5808 220k
C5803 330p/50 CH
R5840 10k
232TX
232RX
232CTS
GNDU
CN5801
XKP3082-A
REAR
C5832 10p/50 CH
C5833 10p/50 CH
C5834 10p/50 CH
C5835 NM
C5836 NM
IR IN 23 IR_IN
RMC 22 RMC
SROUT 21 SR_OUT
SRIN 20 SR_IN
232POWER 19 232POWER
V+5.6U 18
V+5.6U 17 C5804 YB 1000p/50
GNDU 16 C5805 YB
GNDU 15 1000p/50
V+5.6ST 14
232C DET 13 232DET
232C CTS 12 232CTS
232C TX 11 232TX
232C RX 10 232RX
SR RX 9 SR_RX
SR TX 8 SR_TX
SIRIUS RX 7 SIRX
SIRIUS TX 6 SITX
SIRIUS RST 5 SIXRST
GNDA 4
SIRIUS R 3 SIRIUS_R
GNDA 2
SIRIUS L 1 SIRIUS_L
FRONT
GNDA
F CN7021
(SIRIUS)

	SC-07 SC-05	/KU/CA
	AWX9140- /J	
C5852	0.01u/50	
C5857	22u/50	
C5858	22u/50	
R5851	NM	
R5852	NM	
R5853	0	
R5854	330	
R5855	470k	
R5856	330	
R5857	470k	
R5861	NM	
R5862	NM	
R5863	NM	
D5858	1SS302	
JA5807	BKP1127-A	
KN5802	NM	

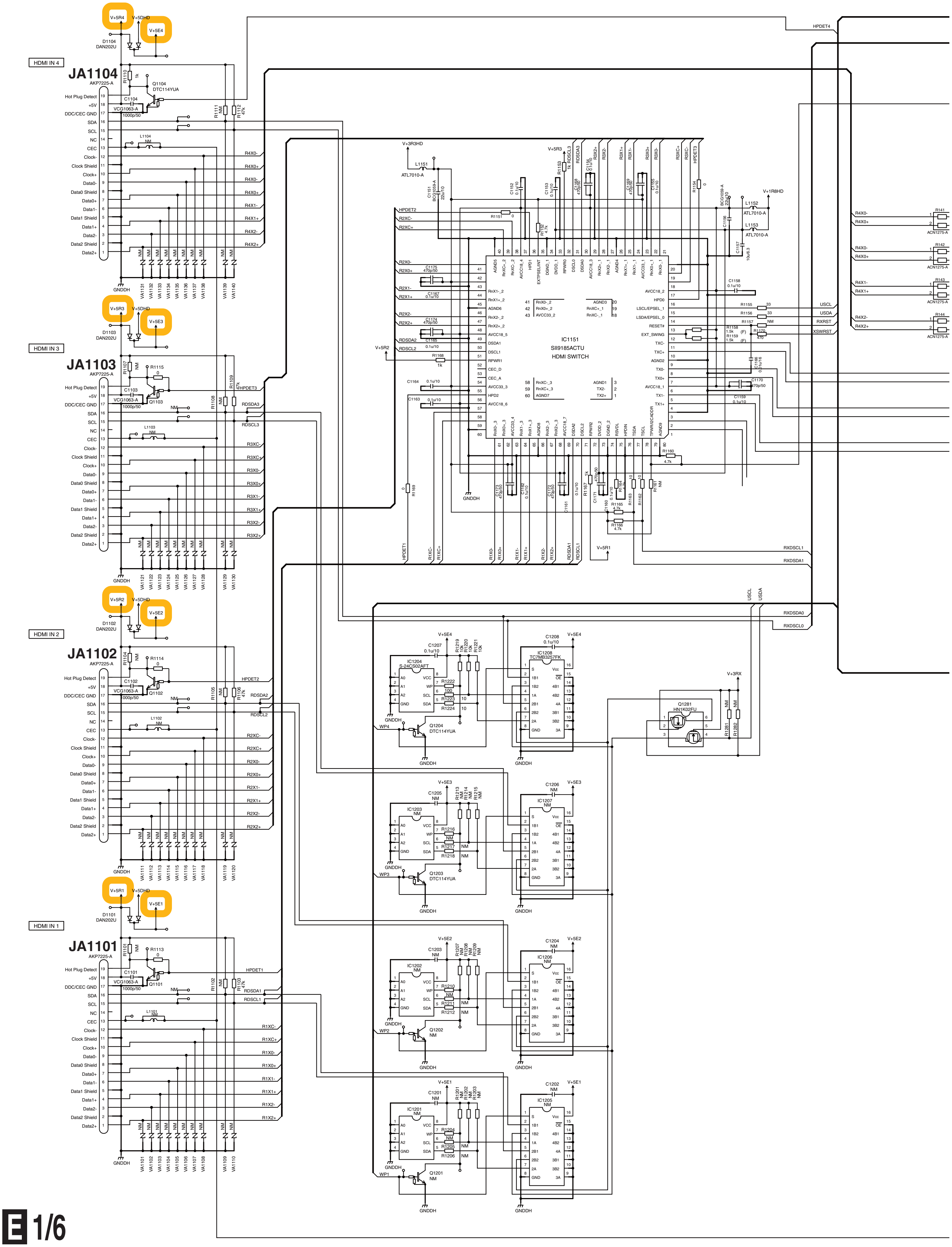
D 232C & CONTROL ASSY (AWX9140)


SR +
SR
GND
SR
RX
TX
GND
SR OUT
SR IN
JA5802
VKB1243-A
JA5803
XKN3015-A
IR OUT
IR IN2
IR IN1
JA5804
VKB1243-A
JA5805
VKB1243-A
JA5806
VKB1243-A
SIRIUS
GNDCH
GNDCH
GNDCH
SIRIUS_L
GNDA
SIRIUS_RX
SIRIUS_R
GND
SIRIUS_TX
SIRIUS_RST
(NC)
RT3
RT2
RT1
*JA5807
BKP1127-A
C5816
NM
C5817
NM
QTL1013-A
L5807
L5806
L5805
L5804
L5803
1SS352
D5805
R5818
NM
SR_OUT
SR_IN
RMC
SR_RX
SR_TX
L5811
L5810
L5809
QTL1013-A
D5806
1SS357
R5820
NM
R5821
56k
D5807
1SS357
R5822
NM
R5823
56k
R5833
820
R5834
820
C5853
NM
*D5858
1SS302
*C5852
0.01u/50
YB
C5851
NM
GNDSID
GNDSIA
GNDCH
R5859
0
R5860
NM
D5851
NM
D5852
NM
D5853
NM
GNDSI1
*R5853
0
SIRX
SITX
SIXRST
(SIRIUS)
U5801
GP1UE284QKC1
VOUT
VCC
GND
C5831
470p/50
YB
D5816
HZU5R1(B2)
D5810
SIM-20STS1
D5809
SIM-20STS1
D5815
HZU5R1(B2)
C5830
470p/50
YB
V+5UM21
C5828
0.01u/50
YB
C5829
100u/16
AT
R5835
47
D5857
NM
D5856
NM
D5855
NM
D5854
NM
C5856
NM
C5855
NM
*R5857
470k
*R5855
470k
*R5856
330
*R5854
330
GNDSI2
*C5858
22u/50
AT
R5858
0
*C5857
22u/50
AT
C5826
NM
R5831
NM
R5830
NM
R5829
NM
Q5805
NM
Q5804
NM
R5832
NM
C5827
NM
C5824
NM
R5827
NM
R5826
NM
R5825
NM
Q5803
NM
R5841
0
Q5802
DTA114TUA
R5828
10k
C5825
NM
D5808
NM
R5842
0
(SIRIUS)
A
B
C
D
E
F

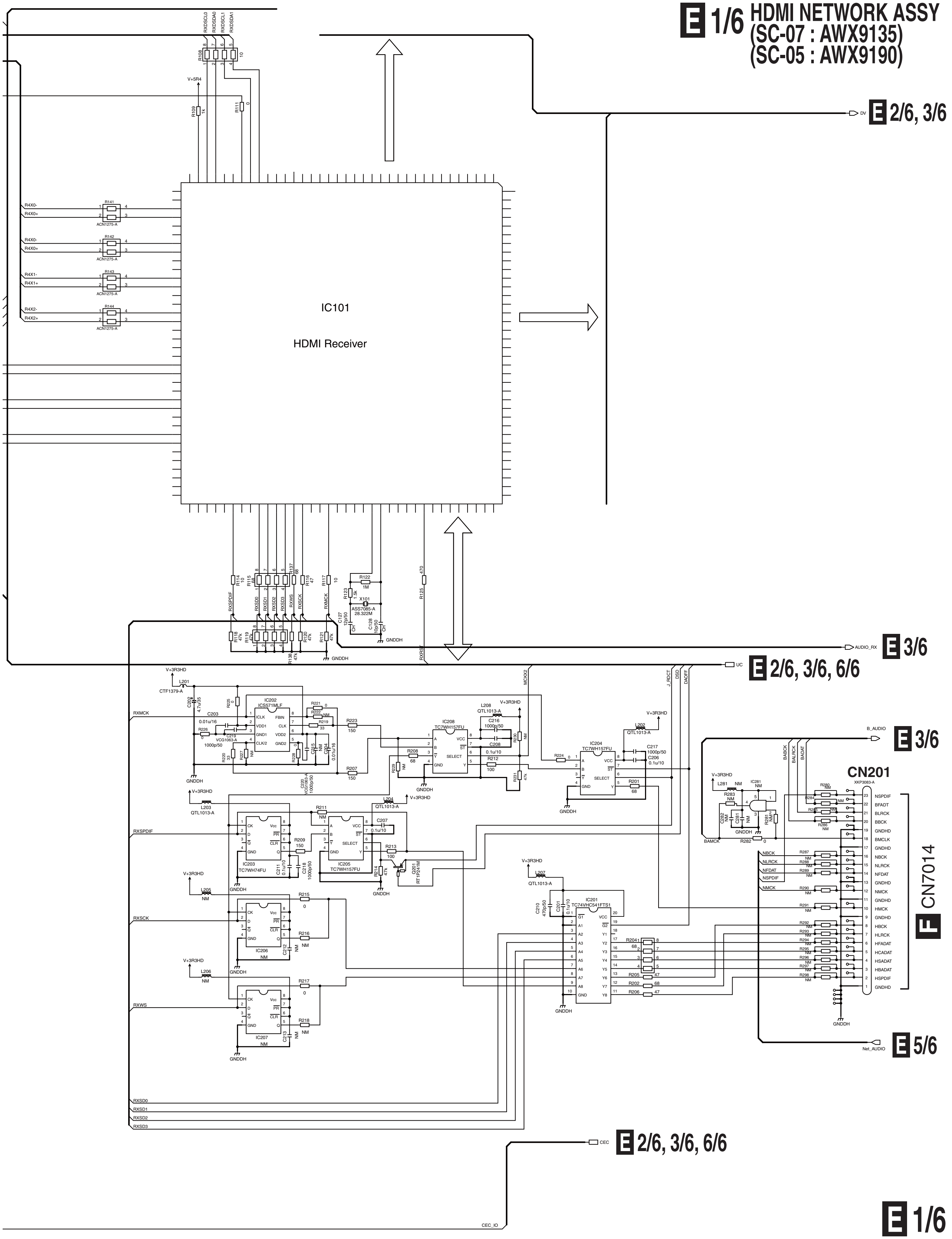
(SIRIUS) : Audio Signal Route (SIRIUS L ch)

NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16w unless otherwise noted.
   Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB:CKSRYB, CH:CCSRCH, AT:CEAT
3. NM: No Mount

10.8 HDMI NETWORK ASSY (1/6)

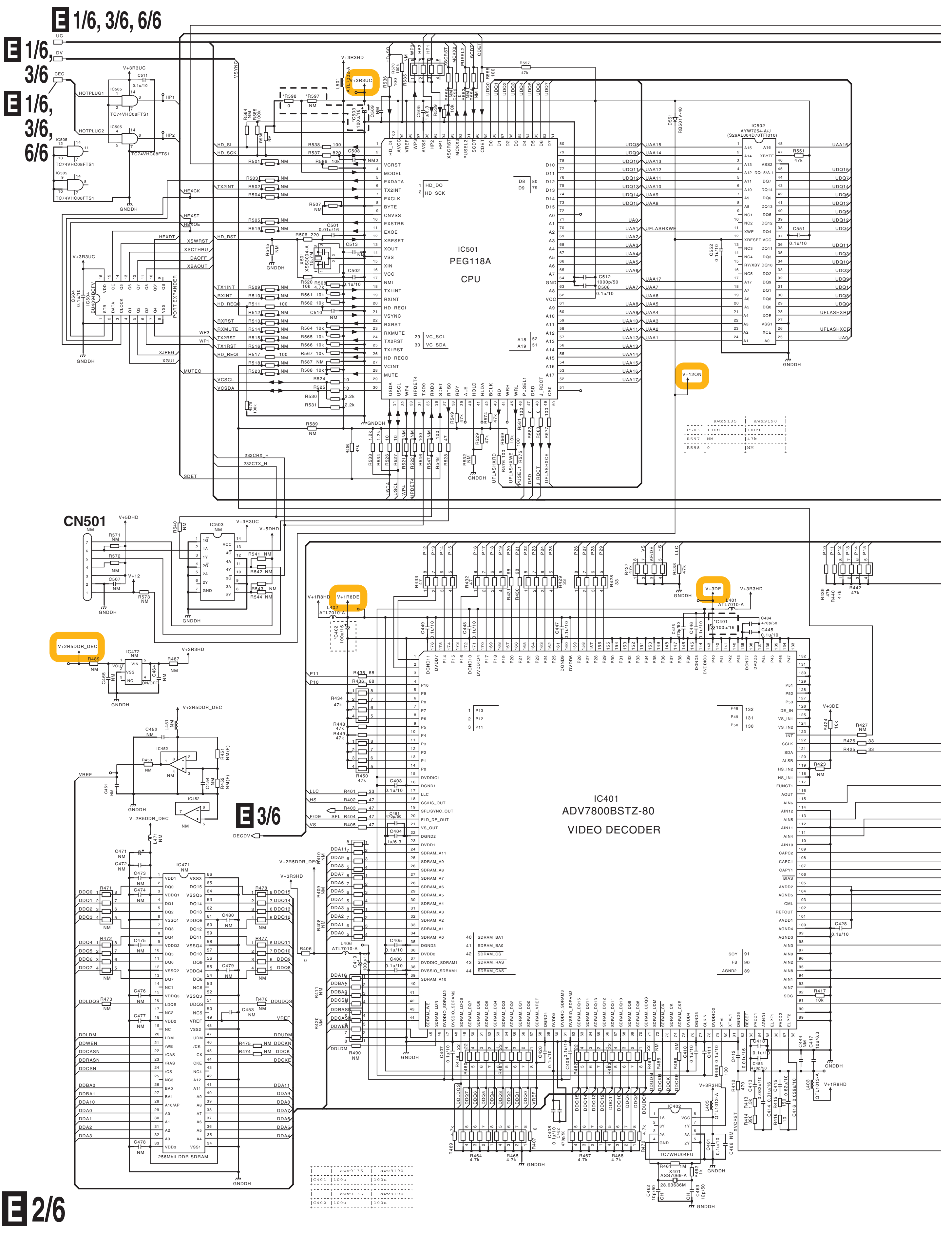

HDMI IN 4
JA1104
AKP7225-A
HDMI IN 3
JA1103
AKP7225-A
HDMI IN 2
JA1102
AKP7225-A
HDMI IN 1
JA1101
AKP7225-A
Hot Plug Detect
+5V
DDC/CEC GND
SDA
SCL
NC
CEC
Clock-
Clock Shield
Clock+
Data0-
Data0 Shield
Data0+
Data1-
Data1 Shield
Data1+
Data2-
Data2 Shield
Data2+
V+5R4
V+5DHD
V+5E4
V+5R3
V+5E3
V+5R2
V+5E2
V+5R1
V+5E1
D1104
DAN202U
D1103
DAN202U
D1102
DAN202U
D1101
DAN202U
Q1104
DTC114YUA
C1104
VCG1063-A
1000p/50
GNDDH
IC1151
SII9185ACTU
HDMI SWITCH
V+3R3HD
L1151
ATL7010-A
V+1R8HD
L1152
ATL7010-A
L1153
ATL7010-A
HPDET4
HPDET3
HPDET2
HPDET1
RDSDA3
RDSCL3
RDSDA2
RDSCL2
RDSDA1
RDSCL1
RXDSCL1
RXDSDA1
RXDSDA0
RXDSCL0
USCL
USDA
RXRST
XSWRST
R141
R142
R143
R144
ACN1275-A
IC1204
S-24CS02AFT
IC1208
TC7MB3257FK
Q1204
DTC114YUA
IC1203
NM
IC1207
NM
Q1203
DTC114YUA
IC1202
NM
IC1206
NM
Q1202
NM
IC1201
NM
IC1205
NM
Q1201
NM
V+3RX
Q1281
HN1K02FU
WP4
WP3
WP2
WP1
V+5R2
V+5R1

E 1/6 HDMI NETWORK ASSY (SC-07 : AWX9135) (SC-05 : AWX9190)


IC101
HDMI Receiver
RXDSCL0
RXDSDA0
RXDSCL1
RXDSDA1
R108
V+5R4
R109 1k
R111 0
R141
R142
R143
R144
ACN1275-A
R4X0-
R4X0+
R4X1-
R4X1+
R4X2-
R4X2+
DV
E 2/6, 3/6
R114 10
R115 68
R137 68
R116 47
R117 10
R122 1M
R123 1.5k
X101 ASS7085-A 28.322M
C127 12p/50 CH
C128 10p/50 CH
R125 470
RXSPDIF
RXSD0
RXSD1
RXSD2
RXSD3
RXWS
RXSCK
RXMCK
RXRST
R118 47k
R119 47k
R136 47k
R120 47k
R121 47k
GNDDH
AUDIO_RX
E 3/6
UC
E 2/6, 3/6, 6/6
V+3R3HD
L201 CTF1379-A
C202 4.7u/35
R225 0
IC202 ICS571MLF
ICLK
VDD1
GND1
CLK/2
FBIN
CLK
VDD2
GND2
C203 0.01u/16
R226 0
C219 VCG1063-A 1000p/50
R220 33
R227 NM
R221 0
R222 NM
R219 33
R228 0
C215 NM
C204 0.01u/16
C220 VCG1063-A 1000p/50
R223 150
R207 150
L208 QTL1013-A
IC208 TC7WH157FU
SELECT
C216 1000p/50
C208 0.1u/10
R230 NM
R208 68
R229 NM
R212 100
R231 47k
MCKX2
J_RDCT
DSD
DADFF
R224 0
IC204 TC7WH157FU
L202 QTL1013-A
C217 1000p/50
C206 0.1u/10
R201 68
B_AUDIO
E 3/6
L203 QTL1013-A
IC203 TC7WH74FU
CK
D
GND
Vcc
PR
CLR
Q
R211 NM
L204 QTL1013-A
IC205 TC7WH157FU
C207 0.1u/10
R209 150
C211 0.1u/10
C218 1000p/50
R213 100
R214 47k
Q201 RT1P241M
L205 NM
R215 0
R216 NM
IC206 NM
C212 NM
L206 NM
R217 0
R218 NM
IC207 NM
C213 NM
RXSCK
RXWS
L207 QTL1013-A
C210 470p/50
C201 0.1u/10
IC201 TC74VHC541FTS1
G1
G2
A1
A2
A3
A4
A5
A6
A7
A8
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
R204 68
R205 47
R202 68
R206 47
CN201
XKP3083-A
F CN7014
L281 NM
IC281 NM
R283 NM
C282 NM
C281 NM
R281 NM
R280 NM
R282 0
BAMCK
BABCK
BALRCK
BADAT
R284
R285
R286 NM
R287
R288
R289
R290
R291
R292
R293
R294
R295
R296
R297
R298
NBCK
NLRCK
NFDAT
NSPDIF
NMCK
NSPDIF
BFADT
BLRCK
BBCK
GNDHD
BMCLK
NBCK
NLRCK
NFDAT
NMCK
HMCK
HBCK
HLRCK
HFADAT
HCADAT
HSADAT
HBADAT
HSPDIF
Net_AUDIO
E 5/6
CEC
E 2/6, 3/6, 6/6
CEC_IO

E 1/6

10.9 HDMI NETWORK ASSY (2/6)



A
B
C
D
E
F
E 1/6, 3/6, 6/6
E 1/6, 3/6
E 1/6, 3/6, 6/6
UC
DV
CEC
HOTPLUG1
HOTPLUG2
HP1
HP2
IC505
TC74VHC08FTS1
V+3R3UC
C511 0.1u/10
GNDDH
HEXCK
HEXST
HEXOE
HEXDT
XSWRST
XSCTHRU
DAOFF
XBAOUT
IC504 BU4094BCFV
PORT EXPANDER
C504 0.1u/10
XJPEG
XGUI
WP2
WP1
MUTEO
VCSCL
VCSDA
SDET
HD_SI
HD_SCK
TX2INT
HD_RST
TX1INT
RXINT
HD_REQO
RXRST
RXMUTE
TX2RST
TX1RST
HD_REQI
IC501
PEG118A
CPU
X501 XSS5094-A 15.734M
L501 ATL7010-A
V+3R3UC
V+3R3HD
232CRX_H
232CTX_H
IC502
AYW7254-A/J
(S29AL004D70TFI010)
UFLASHXWE
UFLASHXRD
UFLASHXCE
D551 RB501V-40
C552 0.1u/10
C551 0.1u/10
R551 47k
V+12ON
CN501
V+5DHD
IC503
V+12
R571 NM
R572 NM
R573 NM
C507 NM
V+2R5DDR_DEC
IC472 NM
R489 NM
R487 NM
V+3R3HD
VREF
IC452
C452 NM
L451 NM
R453 NM
R451 NM(F)
R452 NM(F)
E 3/6
DECDV
LLC
HS
F/DE
VS
SFL
V+1R8HD
V+1R8DE
L402 ATL7010-A
C402 100u/16
V+3DE
L401 ATL7010-A
C401 100u/16
C484 470p/50
C445 0.1u/10
IC401
ADV7800BSTZ-80
VIDEO DECODER
IC471
256Mbit DDR SDRAM
V+2R5DDR_DEC
L471 NM
L406 ATL7010-A
IC402
TC7WHU04FU
X401 ASS7069-A 28.63636M
C462 10p/50 CH
C463 12p/50 CH
L403 QTL1013-A
L405 QTL1013-A
V+1R8HD
GNDDH

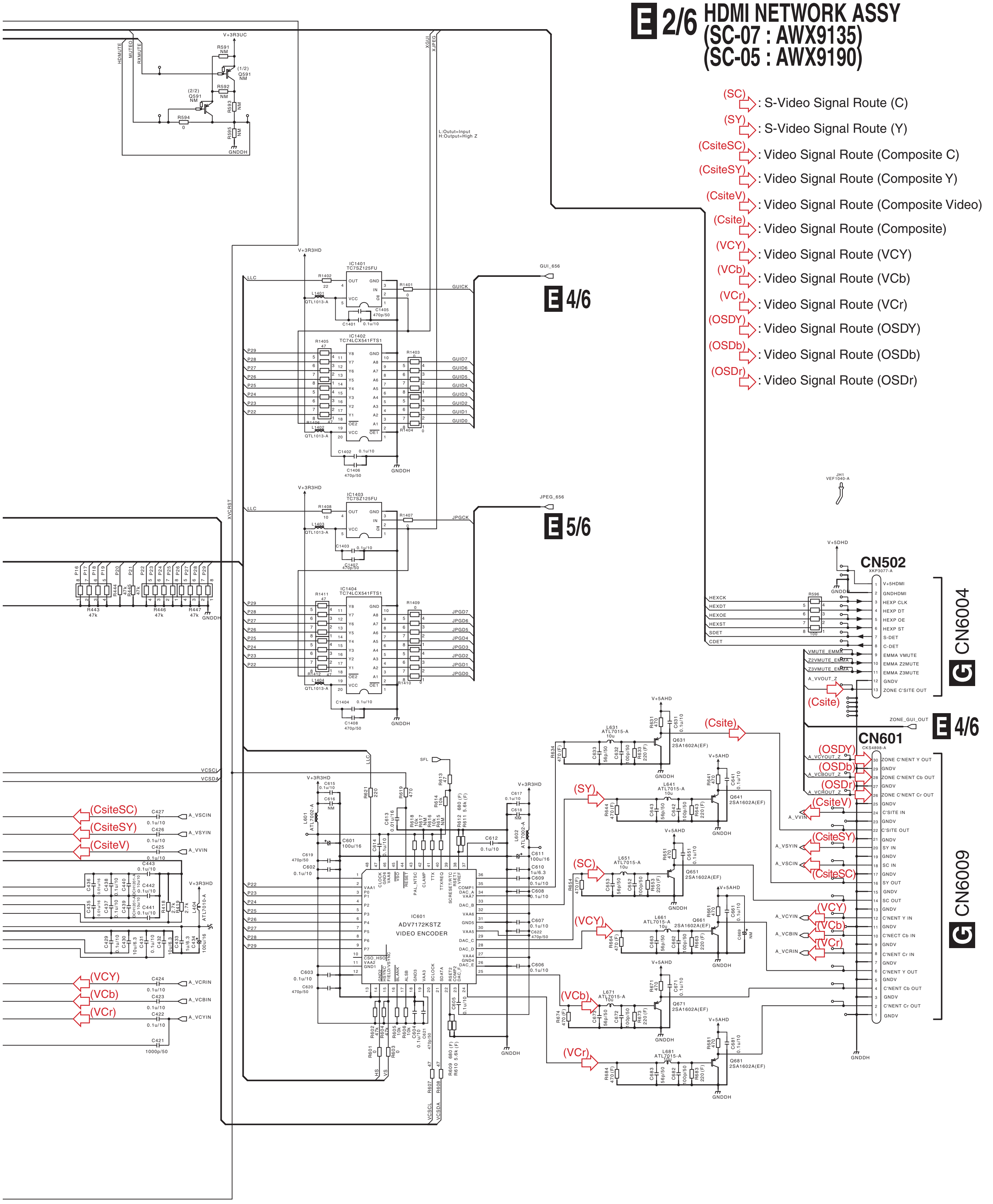
	awx9135	awx9190
C503	100u	100u
R597	NM	47k
R598	0	NM

	awx9135	awx9190
C401	100u	100u

	awx9135	awx9190
C402	100u	100u

E 2/6

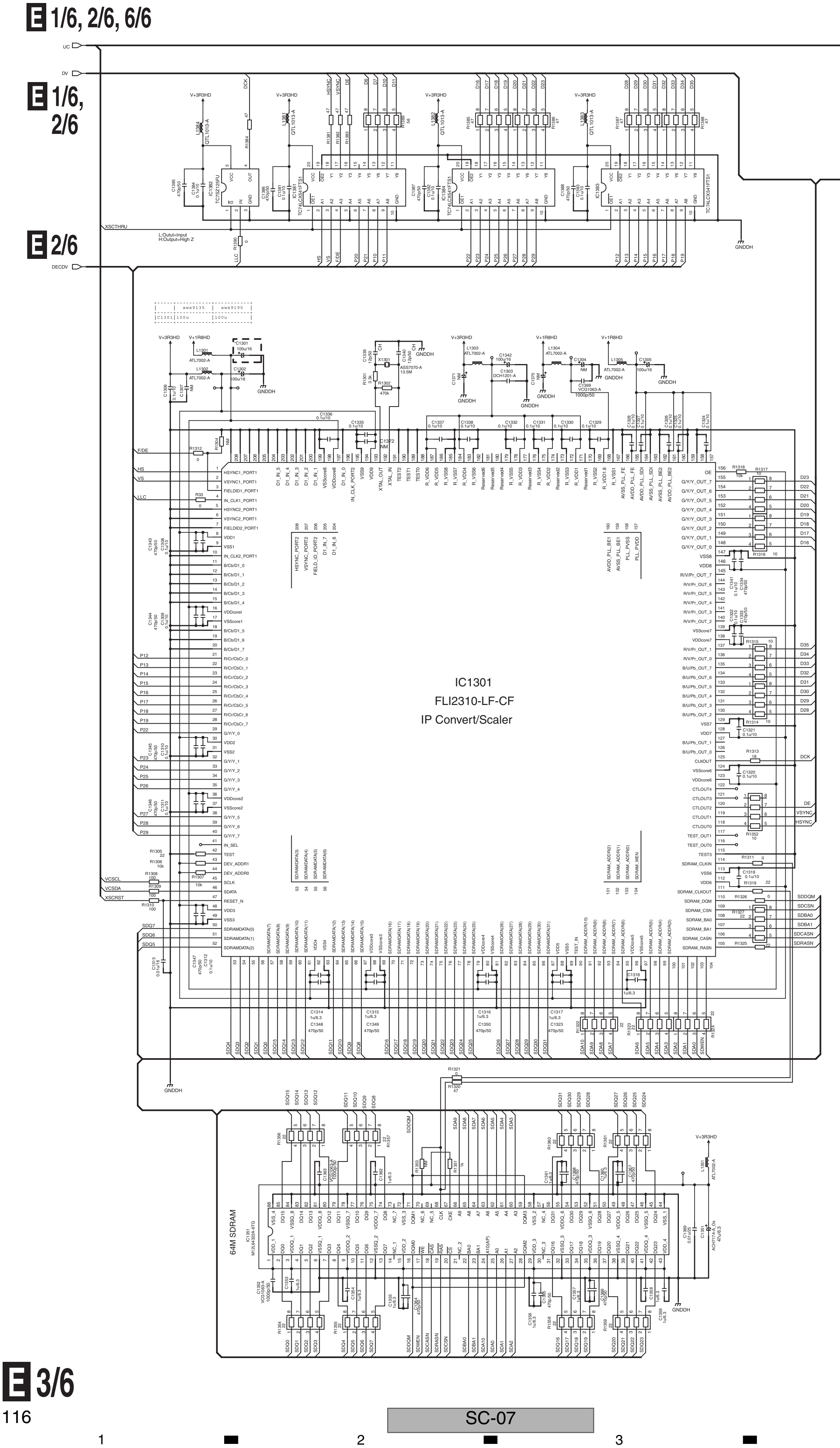
E 2/6 HDMI NETWORK ASSY
(SC-07 : AWX9135)
(SC-05 : AWX9190)



V+3R3UC
HDMUTE
MUTEO
RXMUTE
XGUI
XJPEG
R591 NM
(1/2) Q591 NM
R592 NM
(2/2) Q591 NM
R593 NM
R594 0
R595 NM
GNDDH
L:Outut=Input
H:Output=High Z
V+3R3HD
IC1401 TC7SZ125FU
R1402 22
L1401 QTL1013-A
R1401 0
C1405 470p/50
C1401 0.1u/10
GUICK
GUI_656
E 4/6
IC1402 TC74LCX541FTS1
R1405 47
R1403 0
GUID7
GUID6
GUID5
GUID4
GUID3
GUID2
GUID1
GUID0
R1406 47
L1402 QTL1013-A
R1404 0
C1402 0.1u/10
C1406 470p/50
GNDDH
IC1403 TC7SZ125FU
R1408 10
L1403 QTL1013-A
R1407 0
JPGCK
JPEG_656
E 5/6
C1403 0.1u/10
C1407 470p/50
XVCRST
LLC
P16 P17 P18 P19 P20 P21 P22 P23 P24 P25 P26 P27 P28 P29
R443 47k
R444 47k
R445 47k
R446 47k
R447 47k
IC1404 TC74LCX541FTS1
R1411 47
R1409 0
JPGD7
JPGD6
JPGD5
JPGD4
JPGD3
JPGD2
JPGD1
JPGD0
R1412 47
L1404 QTL1013-A
R1410 0
C1404 0.1u/10
C1408 470p/50
JH1 VEF1040-A
V+5DHD
CN502
XKP3077-A
R596 100
HEXCK
HEXDT
HEXOE
HEXST
SDET
CDET
VMUTE_EMMA
Z2VMUTE_EMMA
Z3VMUTE_EMMA
A_VVOUT_Z
1 V+5HDMI
2 GNDHDMI
3 HEXP CLK
4 HEXP DT
5 HEXP OE
6 HEXP ST
7 S-DET
8 C-DET
9 EMMA VMUTE
10 EMMA Z2MUTE
11 EMMA Z3MUTE
12 GNDV
13 ZONE C'SITE OUT
G CN6004
ZONE_GUI_OUT
E 4/6
VCSCL
VCSDA
SFL
V+5AHD
L631 ATL7015-A 10u
R631 470
C631 0.1u/10
R634 470(F)
C633 56p/50
C632 100p/50
R633 220(F)
Q631 2SA1602A(EF)
CN601
CKS4898-A
A_VCYOUT_Z
A_VCBOUT_Z
A_VCROUT_Z
A_VVIN
A_VSYIN
A_VSCIN
A_VCYIN
A_VCBIN
A_VCRIN
30 ZONE C'NENT Y OUT
29 GNDV
28 ZONE C'NENT Cb OUT
27 GNDV
26 ZONE C'NENT Cr OUT
25 GNDV
24 C'SITE IN
23 GNDV
22 C'SITE OUT
21 GNDV
20 SY IN
19 GNDV
18 SC IN
17 GNDV
16 SY OUT
15 GNDV
14 SC OUT
13 GNDV
12 C'NENT Y IN
11 GNDV
10 C'NECT Cb IN
9 GNDV
8 C'NENT Cr IN
7 GNDV
6 C'NENT Y OUT
5 GNDV
4 C'NENT Cb OUT
3 GNDV
2 C'NENT Cr OUT
1 GNDV
G CN6009
L641 ATL7015-A 10u
R641 470
C641 0.1u/10
R644 470(F)
C643 56p/50
C642 100p/50
R643 220(F)
Q641 2SA1602A(EF)
L651 ATL7015-A 10u
R651 470
C651 0.1u/10
R654 470(F)
C653 56p/50
C652 100p/50
R653 220(F)
Q651 2SA1602A(EF)
L661 ATL7015-A 10u
R661 470
C661 0.1u/10
R664 470(F)
C663 56p/50
C662 100p/50
R663 220(F)
Q661 2SA1602A(EF)
C669 NM
L671 ATL7015-A 10u
R671 470
C671 0.1u/10
R674 470(F)
C673 56p/50
C672 100p/50
R673 220(F)
Q671 2SA1602A(EF)
L681 ATL7015-A 10u
R681 470
C681 0.1u/10
R684 470(F)
C683 56p/50
C682 100p/50
R683 220(F)
Q681 2SA1602A(EF)
IC601
ADV7172KSTZ
VIDEO ENCODER
L601 ATL7002-A
L602 ATL7002-A
C601 100u/16
C611 100u/16
C615 0.1u/10
C616 NM
C617 0.1u/10
C618 NM
R621 220
R619 470
R613 47
R612 680(F)
R611 5.6k(F)
R618 10k
R617 NM
R616 NM
R614 10k
R615 NM
C612 0.1u/10
C613 0.01u/16
C614 0.1u/10
C619 470p/50
C602 0.1u/10
C603 0.1u/10
C620 470p/50
C610 1u/6.3
C609 0.1u/10
C608 0.1u/10
C607 0.1u/10
C622 470p/50
C606 0.1u/10
C605 0.1u/10
C604 0.1u/10
C621 470p/50
R601 0
R602 47k
R603 0
R604 47k
R605 10k
R606 10k
R607 47
R608 47
R609 680(F)
R610 5.6k(F)
HS
VS
VCSCL
VCSDA
C427 0.1u/10
C426 0.1u/10
C425 0.1u/10
C443 0.1u/10
A_VSCIN
A_VSYIN
A_VVIN
C436 0.01u/16
C437 0.01u/16
C438 0.1u/10
C439 0.1u/10
C440 0.1u/10
C435 0.01u/16
C442 0.1u/10
C441 0.1u/10
R418 2.7k
R419 2.7k
L404 ATL7010-A
C429 0.1u/10
C430 0.1u/10
C431 10u/6.3
C432 0.1u/10
C433 1u/6.3
C434 100u/16
C424 0.1u/10
C423 0.1u/10
C422 0.1u/10
C421 1000p/50
A_VCRIN
A_VCBIN
A_VCYIN
GNDDH

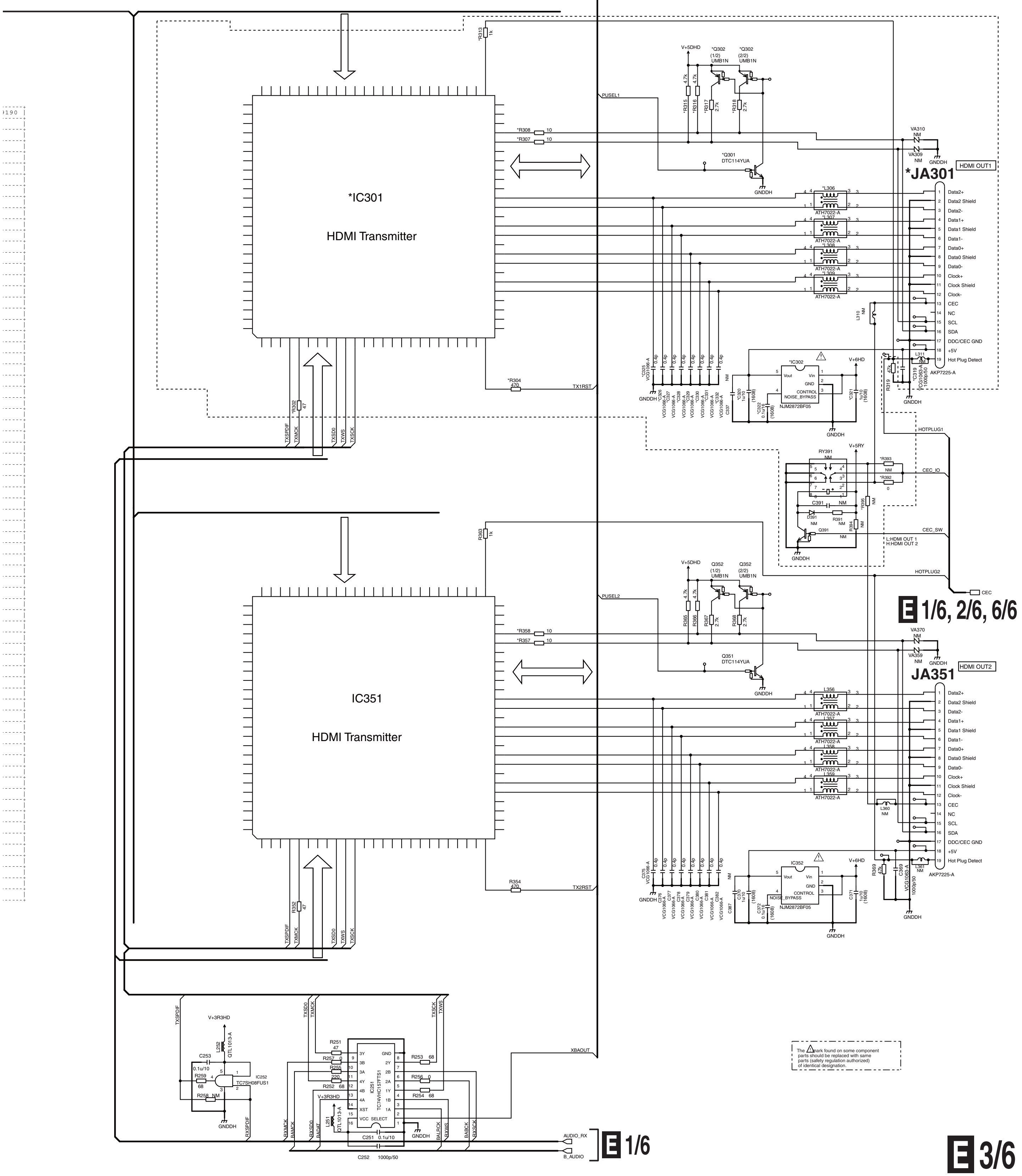
(SC) : S-Video Signal Route (C)
(SY) : S-Video Signal Route (Y)
(CsiteSC) : Video Signal Route (Composite C)
(CsiteSY) : Video Signal Route (Composite Y)
(CsiteV) : Video Signal Route (Composite Video)
(Csite) : Video Signal Route (Composite)
(VCY) : Video Signal Route (VCY)
(VCb) : Video Signal Route (VCb)
(VCr) : Video Signal Route (VCr)
(OSDY) : Video Signal Route (OSDY)
(OSDb) : Video Signal Route (OSDb)
(OSDr) : Video Signal Route (OSDr)

10.10 HDMI NETWORK ASSY (3/6)


E 1/6, 2/6, 6/6
UC
DV
E 1/6, 2/6
E 2/6
DECDV
XSCTHRU
L:Outut=Input
H:Output=High Z
IC1382 TC7SZ125FU
IC1381 TC74LCX541FTS1
IC1384 TC74LCX541FTS1
IC1383 TC74LCX541FTS1
V+3R3HD
V+1R8HD
GNDDH
| awx9135 | awx9190
C1301 | 100u | 100u
X1301 ASS7070-A 13.5M
IC1301
FLI2310-LF-CF
IP Convert/Scaler
F/DE
HS
VS
LLC
VCSCL
VCSDA
XSCRST
DCK
DE
VSYNC
HSYNC
SDDQM
SDCSN
SDBA0
SDBA1
SDCASN
SDRASN
64M SDRAM
IC1361 M12L64322A-6TG
E 3/6

	awx9135	awx9190
C301	10u	NM
C302	10u	NM
C303	10u	NM
C304	10u	NM
C305	10u	NM
C306	1u	NM
C307	0.1u	NM
C308	1u	NM
C309	0.1u	NM
C310	0.01u	NM
C311	1u	NM
C312	0.1u	NM
C313	1u	NM
C314	1u	NM
C315	1u	NM
C316	0.1u	NM
C317	0.1u	NM
C318	1u	NM
C319	1000p	NM
C320	1u	NM
C321	1u	NM
C322	0.1u	NM
C324	0.1u	NM
C325	0.4p	NM
C326	0.4p	NM
C327	0.4p	NM
C328	0.4p	NM
C329	0.4p	NM
C330	0.4p	NM
C331	0.4p	NM
C332	0.4p	NM
C333	470p	NM
C334	470p	NM
C335	470p	NM
C336	470p	NM
R301	15	NM
R302	47	NM
R303	10	NM
R304	470	NM
R305	680	NM
R306	18	NM
R307	10	NM
R308	10	NM
R309	10	NM
R310	10	NM
R312	10k	NM
R313	1k	NM
R314	4.7k	NM
R315	4.7k	NM
R316	4.7k	NM
R317	2.7k	NM
R318	2.7k	NM
R392	0	NM
R393	NM	0
R395	NM	0
L301	ATL7010-A	NM
L302	ATL7010-A	NM
L303	ATL7010-A	NM
L304	ATL7010-A	NM
L305	ATL7010-A	NM
L306	ATH7022-A	NM
L307	ATH7022-A	NM
L308	ATH7022-A	NM
L309	ATH7022-A	NM
IC301	SII9134CTU	NM
IC302	NJM2872BF05	NM
D301	UDZS5R1(B)	NM
JA301	AKP7225-A	NM
Q301	DTC114YUA	NM
Q302	UMB1N	NM

E 3/6 HDMI NETWORK ASSY
(SC-07 : AWX9135)
(SC-05 : AWX9190)


*IC301
HDMI Transmitter
IC351
HDMI Transmitter
*JA301
HDMI OUT1
JA351
HDMI OUT2
Data2+
Data2 Shield
Data2-
Data1+
Data1 Shield
Data1-
Data0+
Data0 Shield
Data0-
Clock+
Clock Shield
Clock-
CEC
NC
SCL
SDA
DDC/CEC GND
+5V
Hot Plug Detect
AKP7225-A
ATH7022-A
*L306
*L307
*L308
*L309
L356
L357
L358
L359
*IC302
NJM2872BF05
IC352
NOISE_BYPASS
CONTROL
Vout
Vin
GND
V+5DHD
V+6HD
V+5RY
V+3R3HD
*Q302 (1/2) UMB1N
*Q302 (2/2) UMB1N
*Q301 DTC114YUA
Q352 (1/2) UMB1N
Q352 (2/2) UMB1N
Q351 DTC114YUA
RY391 NM
Q391
D391
C391
HOTPLUG1
HOTPLUG2
CEC_IO
CEC_SW
L:HDMI OUT 1
H:HDMI OUT 2
CEC
PUSEL1
PUSEL2
TX1RST
TX2RST
XBAOUT
TXSPDIF
TXMCK
TXSD0
TXWS
TXSCK
RXSPDIF
RXMCK
RXSD0
BAMCK
BADAT
BALRCK
BABCK
RXWS
RXSCK
AUDIO_RX
B_AUDIO
IC251
TC74VHC157FTS1
IC252
TC7SH08FUS1
L251 QTL1013-A
L252 QTL1013-A
C251 0.1u/10
C252 1000p/50
C253 0.1u/10
GNDDH
E 1/6
E 1/6, 2/6, 6/6

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

E 3/6

1 2 3 4

10.11 HDMI NETWORK ASSY (4/6)

A

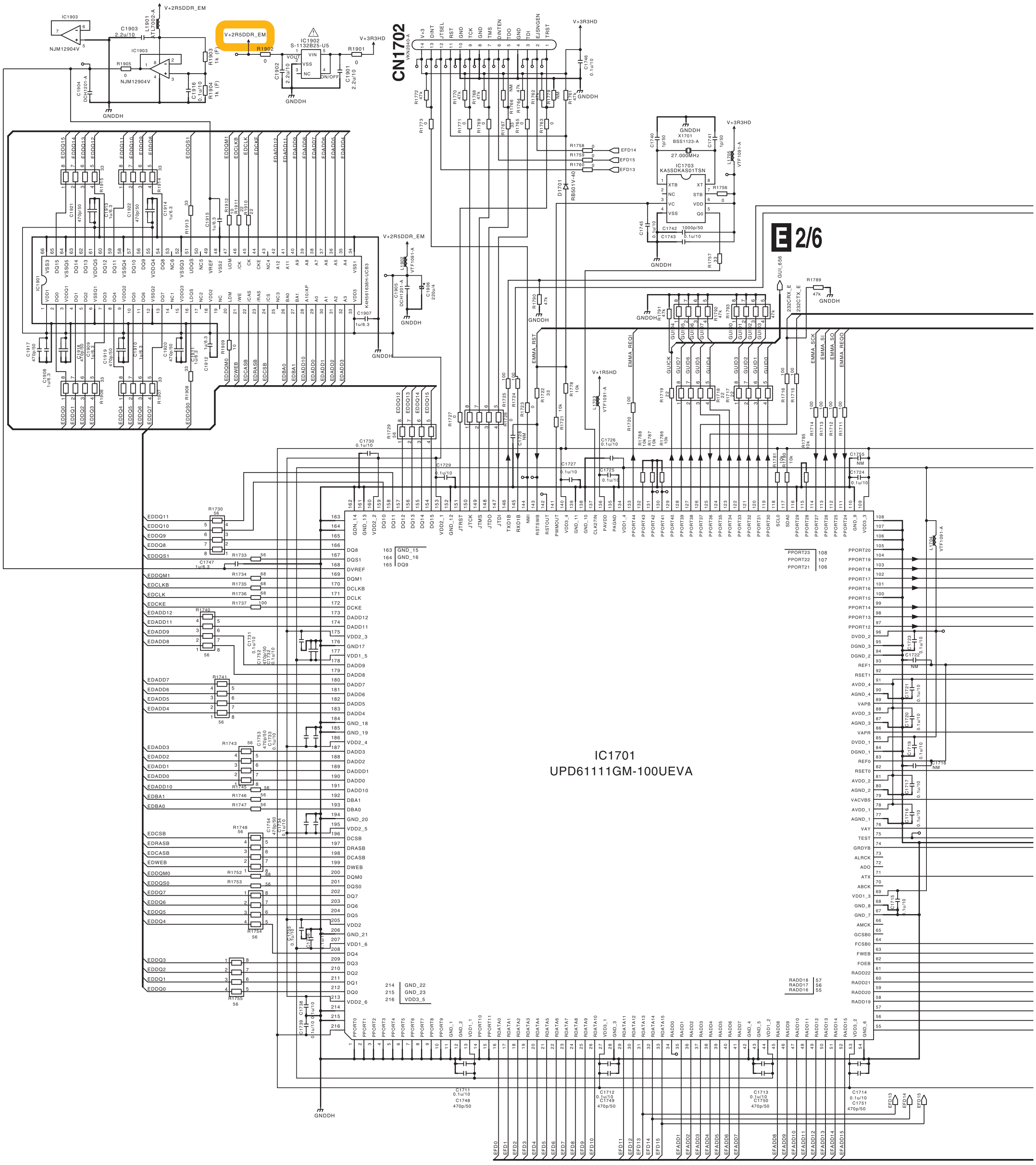
B

C

D

E

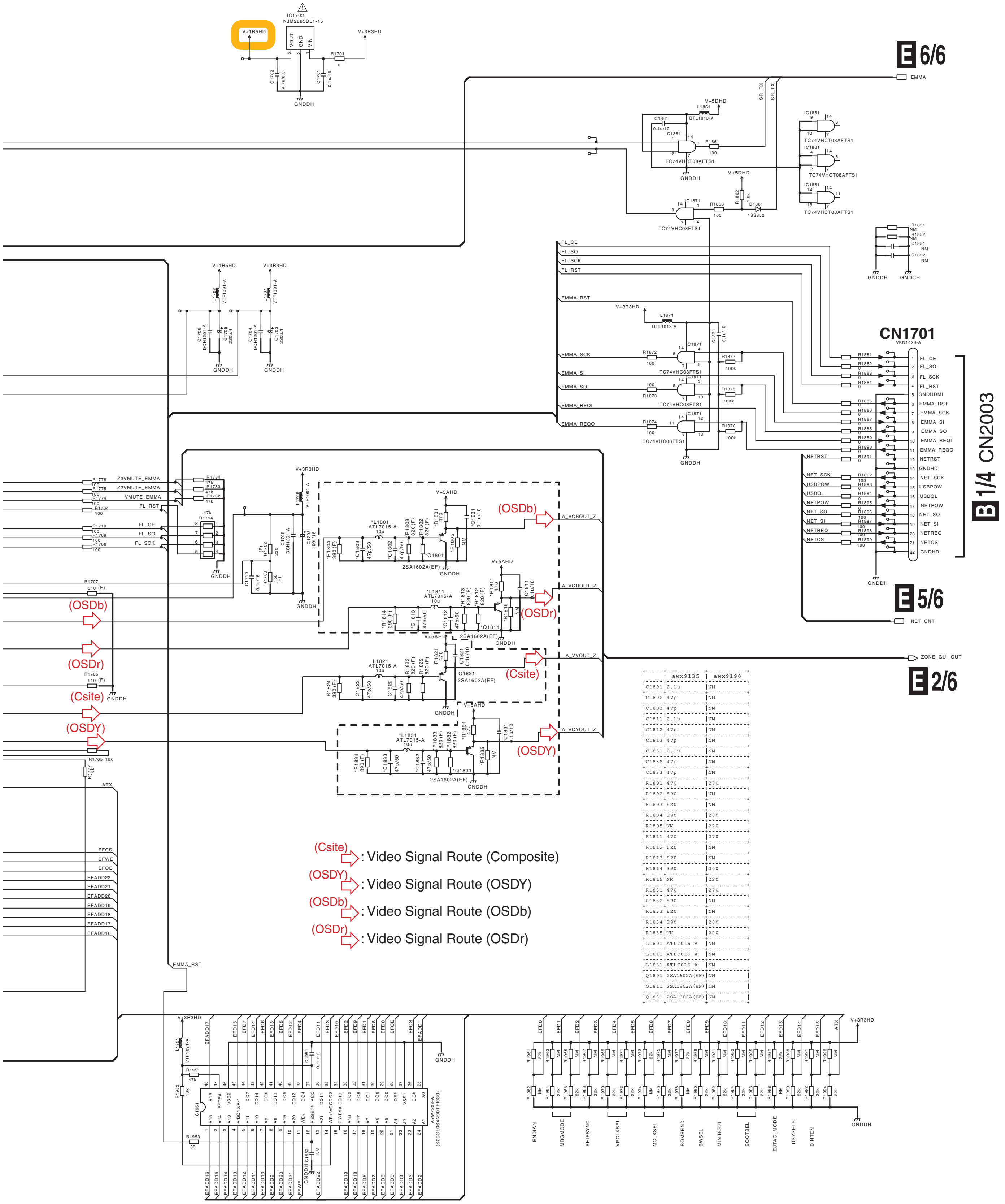
F



IC1903
NJM12904V
C1903
2.2u/10
L1901
ATL7002-A
V+2R5DDR_EM
IC1902
S-1132B25-U5
VIN
VOUT
VSS
NC
ON/OFF
R1902
R1901
V+3R3HD
C1902
2.2u/10
C1901
2.2u/10
R1903
1k (F)
R1904
1k (F)
C1904
DCH1201-A
GNDDH
CN1702
VKN2045-A
V+3
DINT
JTSEL
RST
GND
TCK
TMS
DINTEN
TDO
TDI
EJSNGEN
TRST
V+3R3HD
C1746
0.1u/10
IC1901
K4H561638H-UCB3
C1905
DCH1201-A
C1906
220u/4
L1902
VTF1091-A
V+2R5DDR_EM
GNDDH
X1701
BSS1123-A
27.000MHz
IC1703
KA5SDKAS01TSN
XTB
XT
NC
STB
YC
VDD
VSS
Q0
C1740
1p/50
C1741
1p/50
L1705
VTF1091-A
R1756
C1742
1000p/50
C1743
0.1u/10
R1757
33
EFD14
EFD15
EFD13
R1758
R1759
R1760
D1701
RB501V-40
E 2/6
GUI_656
232CRX_E
232CTX_E
R1789
47k
EMMA_RST
EMMA_REQ
EMMA_SCK
EMMA_SI
EMMA_SO
EMMA_REQ
V+1R5HD
L1703
VTF1091-A
L1704
VTF1091-A
IC1701
UPD61111GM-100UEVA
GUICK
GUID7
GUID6
GUID5
GUID4
GUID3
GUID2
GUID1
GUID0
EFD0
EFD1
EFD2
EFD3
EFD4
EFD5
EFD6
EFD7
EFD8
EFD9
EFD10
EFD11
EFD12
EFD13
EFD14
EFD15
EFADD1
EFADD2
EFADD3
EFADD4
EFADD5
EFADD6
EFADD7
EFADD8
EFADD9
EFADD10
EFADD11
EFADD12
EFADD13
EFADD14
EFADD15
GNDDH

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

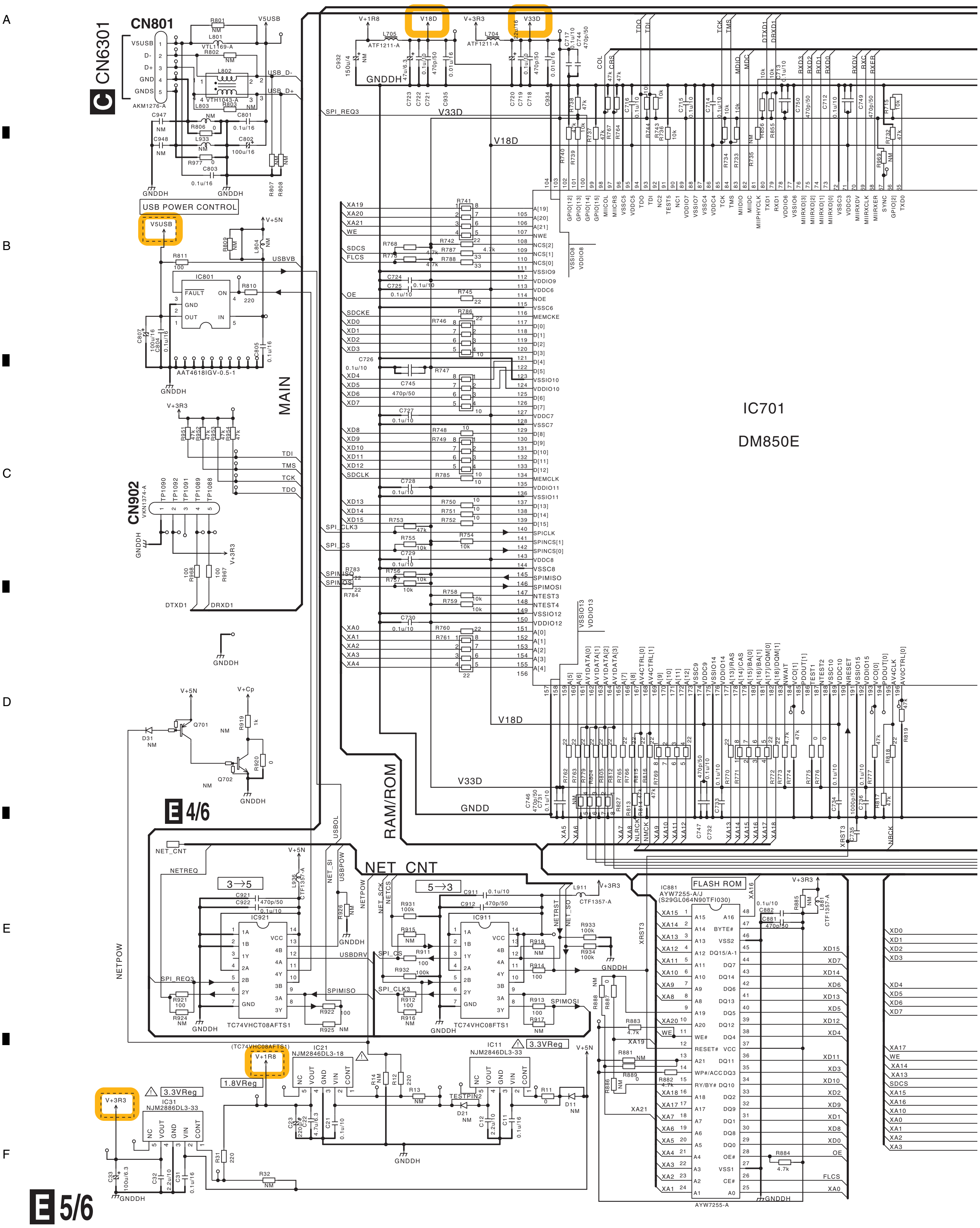
E 4/6 HDMI NETWORK ASSY (SC-07 : AWX9135) (SC-05 : AWX9190)


IC1702
NJM2885DL1-15
V+1R5HD
V+3R3HD
VOUT
GND
VIN
R1701
C1702 4.7u/6.3
C1701 0.1u/16
GNDDH
E 6/6
EMMA
SR_RX
SR_TX
V+5DHD
L1861 QTL1013-A
C1861 0.1u/10
IC1861
R1861 100
TC74VHCT08AFTS1
R1862 1.8k
D1861 1SS352
IC1871
R1863 100
TC74VHC08FTS1
R1851 NM
R1852 NM
C1851 NM
C1852 NM
GNDDH
GNDCH
FL_CE
FL_SO
FL_SCK
FL_RST
EMMA_RST
EMMA_SCK
EMMA_SI
EMMA_SO
EMMA_REQI
EMMA_REQO
L1871 QTL1013-A
C1871 0.1u/10
R1872 100
R1877 100k
R1873 100
R1875 100k
R1874 100
R1876 100k
CN1701
VKN1426-A
1 FL_CE
2 FL_SO
3 FL_SCK
4 FL_RST
5 GNDHDMI
6 EMMA_RST
7 EMMA_SCK
8 EMMA_SI
9 EMMA_SO
10 EMMA_REQI
11 EMMA_REQO
12 NETRST
13 GNDHD
14 NET_SCK
15 USBPOW
16 USBOL
17 NETPOW
18 NET_SO
19 NET_SI
20 NETREQ
21 NETCS
22 GNDHD
NETRST
NET_SCK
USBPOW
USBOL
NETPOW
NET_SO
NET_SI
NETREQ
NETCS
B 1/4 CN2003
E 5/6
NET_CNT
ZONE_GUI_OUT
E 2/6
L1702 VTF1091-A
L1701 VTF1091-A
C1706 DCH1201-A
C1705 220u/4
C1704 DCH1201-A
C1703 220u/4
R1776 100
R1775 100
R1774 100
R1704 100
Z3VMUTE_EMMA
Z2VMUTE_EMMA
VMUTE_EMMA
FL_RST
R1784 47k
R1783 47k
R1782 47k
R1794 47k
R1710 100
R1709 100
R1708 100
FL_CE
FL_SO
FL_SCK
R1707 910 (F)
R1706 910 (F)
R1705 10k
R1711 10k
ATX
(OSDb)
(OSDr)
(Csite)
(OSDY)
L1706 VTF1091-A
C1709 DCH1201-A
C1708 100u/16
R1702 220
R1703 150 (F)
C1710 0.1u/16
*L1801 ATL7015-A 10u
*R1801 470
*C1801 0.1u/10
*R1803 820 (F)
*R1802 820 (F)
*R1804 390 (F)
*C1803 47p/50
*C1802 47p/50
*R1805 NM
*Q1801
2SA1602A(EF)
A_VCBOUT_Z
*L1811 ATL7015-A 10u
*R1811 470
C1811 0.1u/10
*R1813 820 (F)
*R1812 820 (F)
*R1814 390 (F)
*C1813 47p/50
*C1812 47p/50
*R1815 NM
*Q1811
A_VCROUT_Z
L1821 ATL7015-A 10u
R1821 470
C1821 0.1u/10
R1823 820 (F)
R1822 820 (F)
R1824 390 (F)
C1823 47p/50
C1822 47p/50
Q1821 2SA1602A(EF)
A_VVOUT_Z
*L1831 ATL7015-A 10u
*R1831 470
*C1831 0.1u/10
*R1833 820 (F)
*R1832 820 (F)
*R1834 390 (F)
*C1833 47p/50
*C1832 47p/50
*R1835 NM
*Q1831
A_VCYOUT_Z
V+5AHD
GNDDH
EFCS
EFWE
EFOE
EFADD22
EFADD21
EFADD20
EFADD19
EFADD18
EFADD17
EFADD16
EMMA_RST
L1951 VTF1091-A
R1951 47k
R1952 10k
R1953 33
IC1951
AYW7232-A
(S29GL064N90TFI030)
C1951 0.1u/10
C1952 NM
EFADD17
EFD15
EFD7
EFD14
EFD6
EFD13
EFD5
EFD12
EFD4
EFD11
EFD3
EFD10
EFD2
EFD9
EFD1
EFD8
EFD0
EFOE
EFCS
EFADD1
EFADD16
EFADD15
EFADD14
EFADD13
EFADD12
EFADD11
EFADD10
EFADD9
EFADD20
EFADD21
EFWE
EFADD22
EFADD19
EFADD18
EFADD8
EFADD7
EFADD6
EFADD5
EFADD4
EFADD3
EFADD2
ENDIAN
MRGMODE
BHIFSYNC
VRCLKSEL
MCLKSEL
ROMBEND
BWSEL
MINIBOOT
BOOTSEL
EJTAG_MODE
DSYSELB
DINTEN

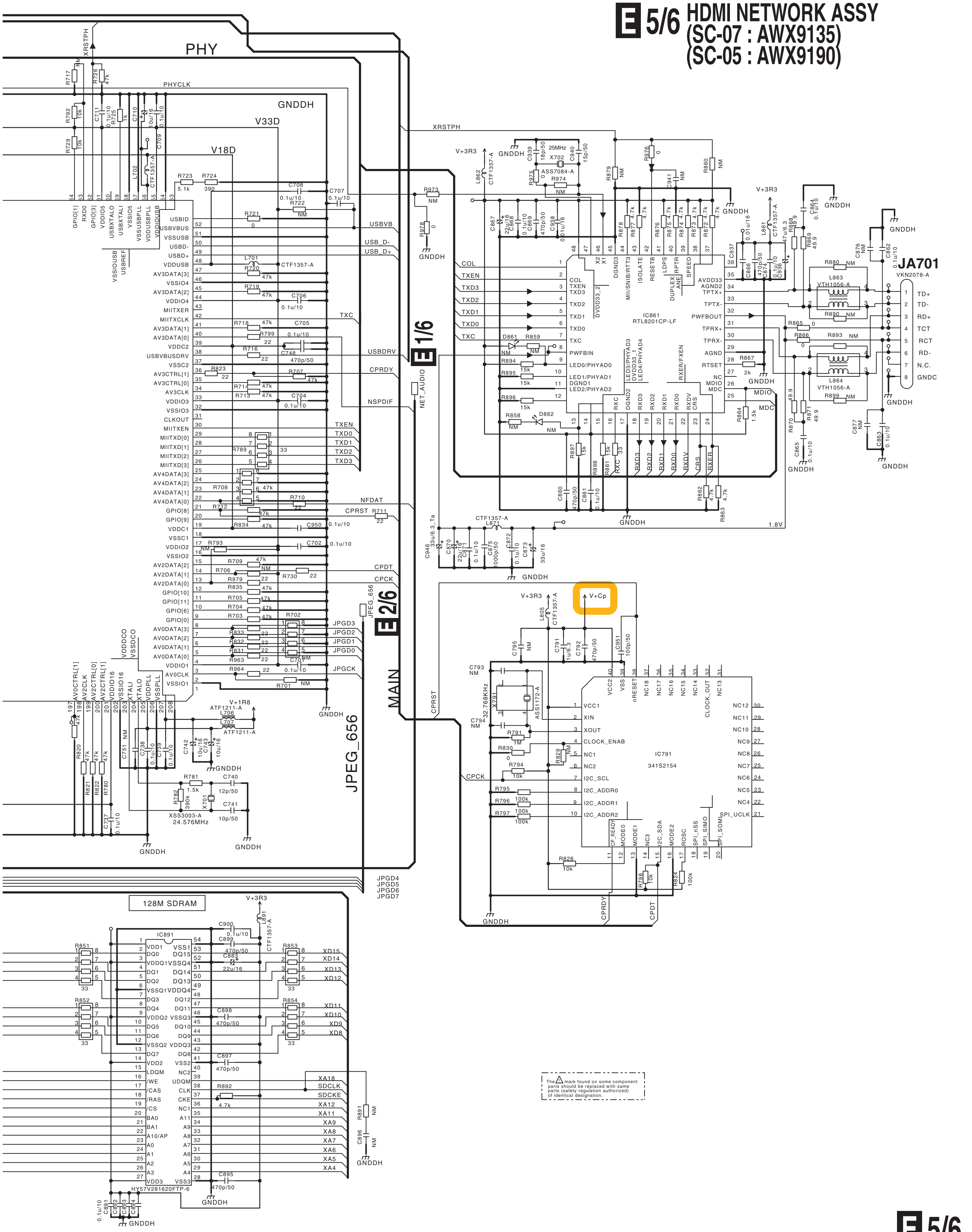
	awx9135	awx9190
C1801	0.1u	NM
C1802	47p	NM
C1803	47p	NM
C1811	0.1u	NM
C1812	47p	NM
C1813	47p	NM
C1831	0.1u	NM
C1832	47p	NM
C1833	47p	NM
R1801	470	270
R1802	820	NM
R1803	820	NM
R1804	390	200
R1805	NM	220
R1811	470	270
R1812	820	NM
R1813	820	NM
R1814	390	200
R1815	NM	220
R1831	470	270
R1832	820	NM
R1833	820	NM
R1834	390	200
R1835	NM	220
L1801	ATL7015-A	NM
L1811	ATL7015-A	NM
L1831	ATL7015-A	NM
Q1801	2SA1602A(EF)	NM
Q1811	2SA1602A(EF)	NM
Q1831	2SA1602A(EF)	NM

(Csite) ⇨ : Video Signal Route (Composite)
(OSDY) ⇨ : Video Signal Route (OSDY)
(OSDb) ⇨ : Video Signal Route (OSDb)
(OSDr) ⇨ : Video Signal Route (OSDr)

10.12 HDMI NETWORK ASSY (5/6)

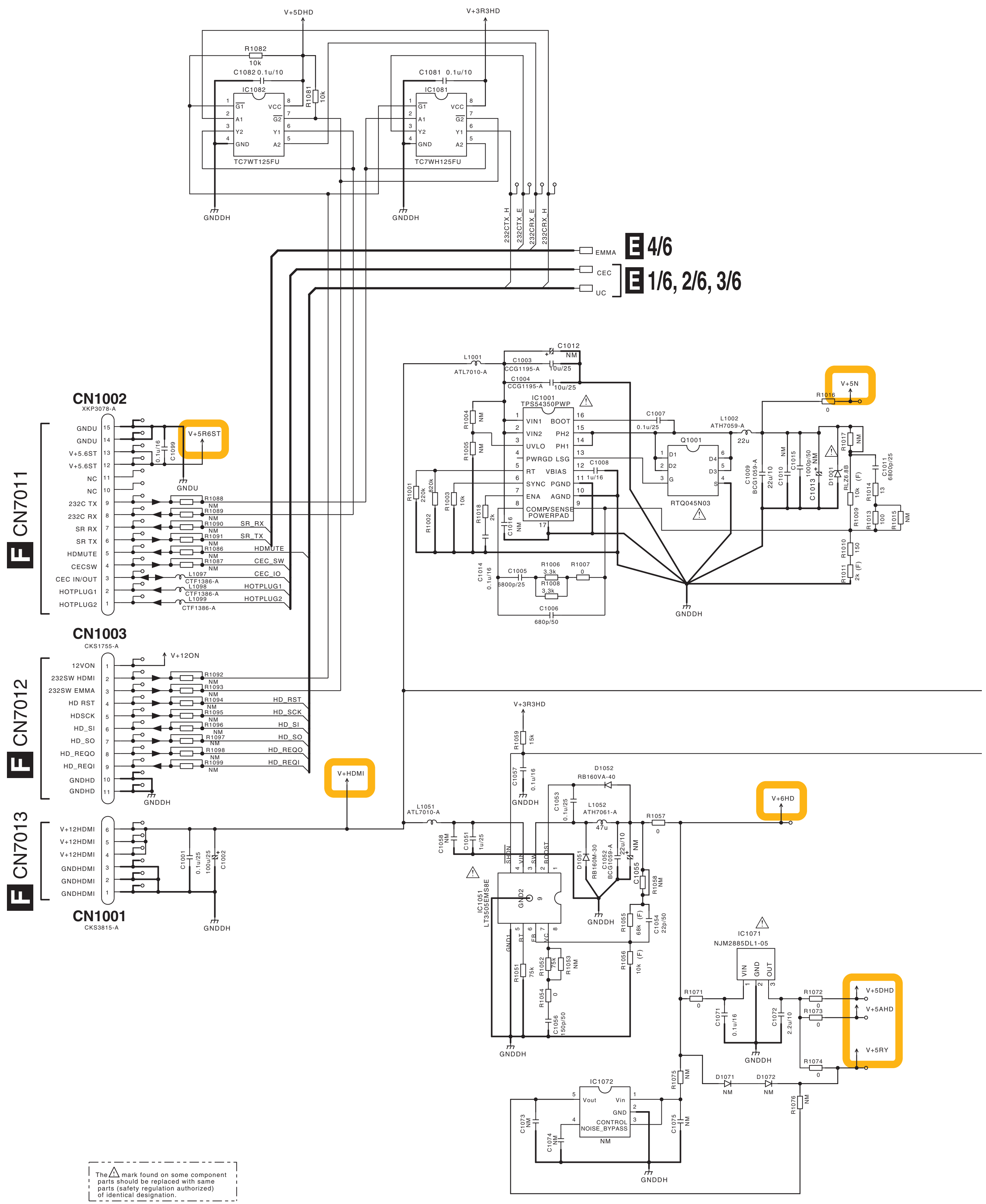

A
B
C
D
E
F
C CN6301
CN801
V5USB
D-
D+
GND
GNDS
AKM1276-A
R801 NM
L801 VTL1169-A
R802 NM
L802
L803 VTH1043-A
R803 NM
C947 NM
C948 NM
R806 0
L933 NM
R977 0
C801 0.1u/16
C802 100u/16
C803 0.1u/16
USB_D-
USB_D+
GNDDH
R807
R808
USB POWER CONTROL
V5USB
V+5N
R809 NM
L804 NM
R811 100
USBVB
IC801
FAULT
ON
GND
OUT
IN
R810 220
C807 100u/16
C804 0.1u/16
C805 0.1u/16
AAT4618IGV-0.5-1
V+3R3
R951 47k
R952 47k
R953 47k
R954 47k
TDI
TMS
TCK
TDO
CN902 VKN1374-A
TP1090
TP1092
TP1091
TP1089
TP1088
R966 100
R967 100
DTXD1
DRXD1
MAIN
V+1R8
V18D
V+3R3
V33D
L705 ATF1211-A
L704 ATF1211-A
C932 150u/4 NM
GNDDH
C723
C722
C721
C935
C720
C719
C718
C934
SPI_REQ3
XA19
XA20
XA21
WE
SDCS
FLCS
OE
SDCKE
XD0 XD1 XD2 XD3 XD4 XD5 XD6 XD7
XD8 XD9 XD10 XD11 XD12
SDCLK
XD13 XD14 XD15
SPI_CLK3
SPI_CS
SPIMISO
SPIMOSI
XA0 XA1 XA2 XA3 XA4
RAM/ROM
IC701
DM850E
V18D
V33D
GNDD
V+5N
V+Cp
Q701 NM
Q702 NM
D31 NM
R919 1k
R920 0
GNDDH
E 4/6
NET_CNT
NETREQ
USBOL
USBPOW
NET_SI
NETPOW
NET_SCK
NETCS
NET_CNT
3→5
5→3
IC921
TC74VHCT08AFTS1
C921 470p/50
C922 0.1u/10
L936 CTF1357-A
R926 NM
USBDRV
SPI_REQ3
R921 100
R924 NM
R922 100
R925 NM
SPIMISO
IC911
TC74VHC08FTS1
C911 0.1u/10
C912 470p/50
R931 100k
R915 NM
R911 100
R932 100k
R912 100
R916 NM
SPI_CS
SPI_CLK3
R918 NM
R914 100
R913 100
R917 NM
SPIMOSI
NETRST
NET_SO
R933 100k
R934 100k
L911 CTF1357-A
V+3R3
XRST3
IC881
AYW7255-A/J
(S29GL064N90TFI030)
FLASH ROM
R885 NM
L881 CTF1357-A
C882 0.1u/10
C881 470p/50
R888 NM
R887 NM
R883 4.7k
R881 NM
R882 4.7k
R889 NM
R886 NM
R884 4.7k
AYW7255-A
XD0 XD1 XD2 XD3 XD4 XD5 XD6 XD7
XA17 WE XA14 XA13 SDCS XA15 XA16 XA10 XA0 XA1 XA2 XA3
FLCS
XA0
OE
(TC74VHC08AFTS1)
V+1R8
1.8VReg
IC21 NJM2846DL3-18
C23 220u/4
C22 4.7u/6.3
C21 0.1u/10
R14 NM
R12 220
R13 NM
TESTPIN2
D21 NM
IC11 NJM2846DL3-33
3.3VReg
C12 2.2u/10
C11 0.1u/16
R11 0
D11 NM
V+5N
V+3R3
3.3VReg
IC31 NJM2886DL3-33
NC VOUT GND VIN CONT
C33 100u/6.3
C32 2.2u/10
C31 0.1u/16
R31 220
R32 NM
GNDDH
E 5/6

E 5/6 HDMI NETWORK ASSY
(SC-07 : AWX9135)
(SC-05 : AWX9190)


PHY
XRSTPH
PHYCLK
GNDDH
V33D
V18D
USBVB
USB_D-
USB_D+
TXC
USBDRV
CPRDY
NSPDIF
TXEN
TXD0
TXD1
TXD2
TXD3
NFDAT
CPRST
CPDT
CPCK
JPGD3
JPGD2
JPGD1
JPGD0
JPGCK
JPGD4
JPGD5
JPGD6
JPGD7
E 1/6
E 2/6
NET_AUDIO
JPEG_656
MAIN
V+1R8
ATF1211-A
XSS3003-A
24.576MHz
128M SDRAM
IC891
HY57V281620FTP-6
V+3R3
CTF1357-A
XD15
XD14
XD13
XD12
XD11
XD10
XD9
XD8
XA10
SDCLK
SDCKE
XA12
XA11
XA9
XA8
XA7
XA6
XA5
XA4
IC861
RTL8201CP-LF
25MHz
X702
ASS7084-A
JA701
VKN2078-A
TD+
TD-
RD+
TCT
RCT
RD-
N.C.
GNDC
L863
VTH1056-A
L864
VTH1056-A
MDIO
MDC
1.8V
V+Cp
IC791
341S2154
X791
32.768KHz
ASS1172-A
VCC1
XIN
XOUT
CLOCK_ENAB
NC1
NC2
I2C_SCL
I2C_ADDR0
I2C_ADDR1
I2C_ADDR2
SPI_UCLK
VCC2
VSS
nRESET
CLOCK_OUT
CP_READY
MODE0
MODE1
I2C_SDA
MODE2
ROSC
SPI_nSS
SPI_SIMO
SPI_SOMI
CPRDY
CPDT

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

10.13 HDMI NETWORK ASSY (6/6)

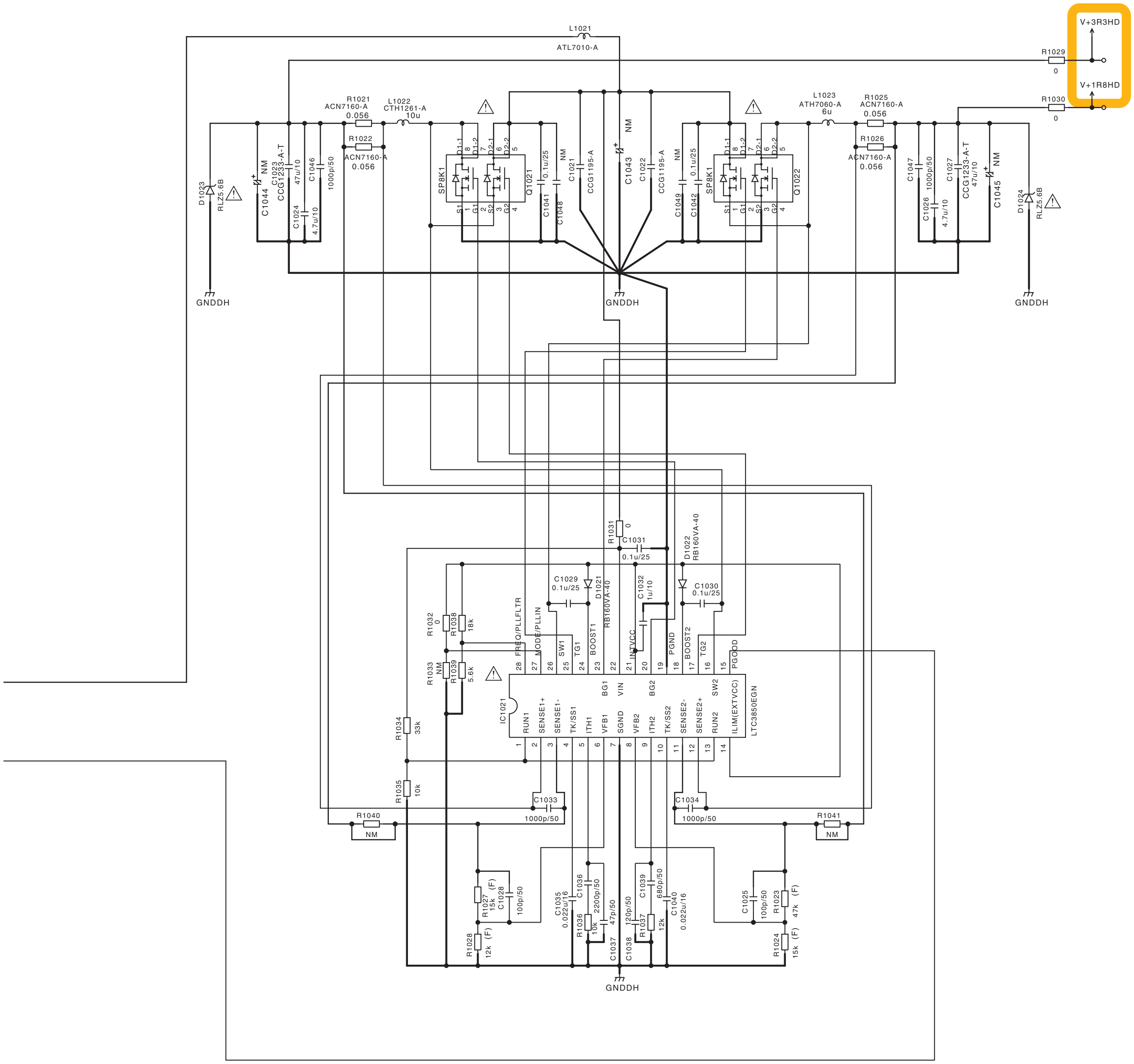


V+5DHD
V+3R3HD
R1082
10k
C1082 0.1u/10
IC1082
G1
VCC
A1
G2
Y2
Y1
GND
A2
TC7WT125FU
R1081
10k
C1081 0.1u/10
IC1081
TC7WH125FU
GNDDH
232CTX_H
232CTX_E
232CRX_E
232CRX_H
EMMA
CEC
UC
E 4/6
E 1/6, 2/6, 3/6
CN1002
XKP3078-A
F CN7011
GNDU
V+5.6ST
NC
232C TX
232C RX
SR RX
SR TX
HDMUTE
CECSW
CEC IN/OUT
HOTPLUG1
HOTPLUG2
C1099
0.1u/16
V+5R6ST
R1088
R1089
R1090
R1091
R1086
R1087
NM
L1097
L1098
L1099
CTF1386-A
SR_RX
SR_TX
HDMUTE
CEC_SW
CEC_IO
HOTPLUG1
HOTPLUG2
CN1003
CKS1755-A
F CN7012
12VON
232SW HDMI
232SW EMMA
HD RST
HDSCK
HD_SI
HD_SO
HD_REQO
HD_REQI
GNDHD
V+12ON
R1092
R1093
R1094
R1095
R1096
R1097
R1098
R1099
HD_RST
HD_SCK
HD_SI
HD_SO
HD_REQO
HD_REQI
F CN7013
V+12HDMI
GNDHDMI
C1001
0.1u/25
C1002
100u/25
CN1001
CKS3815-A
V+HDMI
L1001
ATL7010-A
C1003
CCG1195-A
10u/25
C1004
CCG1195-A
10u/25
C1012
NM
IC1001
TPS54350PWP
VIN1
VIN2
UVLO
PWRGD
RT
SYNC
ENA
COMP
BOOT
PH2
PH1
LSG
VBIAS
PGND
AGND
VSENSE
POWERPAD
R1004
R1005
R1001
220k
R1002
820k
R1003
10k
R1018
2k
C1016
C1014
0.1u/16
C1005
6800p/25
R1006
3.3k
R1007
0
R1008
3.3k
C1006
680p/50
C1007
0.1u/25
C1008
1u/16
L1002
ATH7059-A
22u
Q1001
RTQ045N03
D1
D2
G
D4
D3
S
V+5N
R1016
0
C1009
BCG1059-A
22u/10
C1010
C1015
1000p/50
C1013
D1001
RLZ6.8B
R1017
R1014
13
R1009
10k (F)
R1013
100
R1015
C1011
6800p/25
R1010
150
R1011
2k (F)
GNDDH
V+3R3HD
R1059
15k
C1057
0.1u/16
D1052
RB160VA-40
L1051
ATL7010-A
C1050
C1051
1u/25
C1053
0.1u/25
L1052
ATH7061-A
47u
D1051
RB160M-30
C1052
BCG1059-A
22u/10
C1055
R1057
0
V+6HD
IC1051
LT3505EMSE
SHDN
VIN
SW
BOOST
GND2
GND1
RT
FB
VC
R1051
75k
R1052
75k
R1053
R1054
0
C1056
150p/50
R1055
68k (F)
C1054
22p/50
R1056
10k (F)
R1058
IC1071
NJM2885DL1-05
VIN
GND
OUT
R1071
0
C1071
0.1u/16
C1072
2.2u/10
R1072
0
R1073
0
R1074
0
V+5DHD
V+5AHD
V+5RY
R1075
D1071
D1072
R1076
IC1072
Vout
Vin
GND
CONTROL
NOISE_BYPASS
C1073
C1074
C1075

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

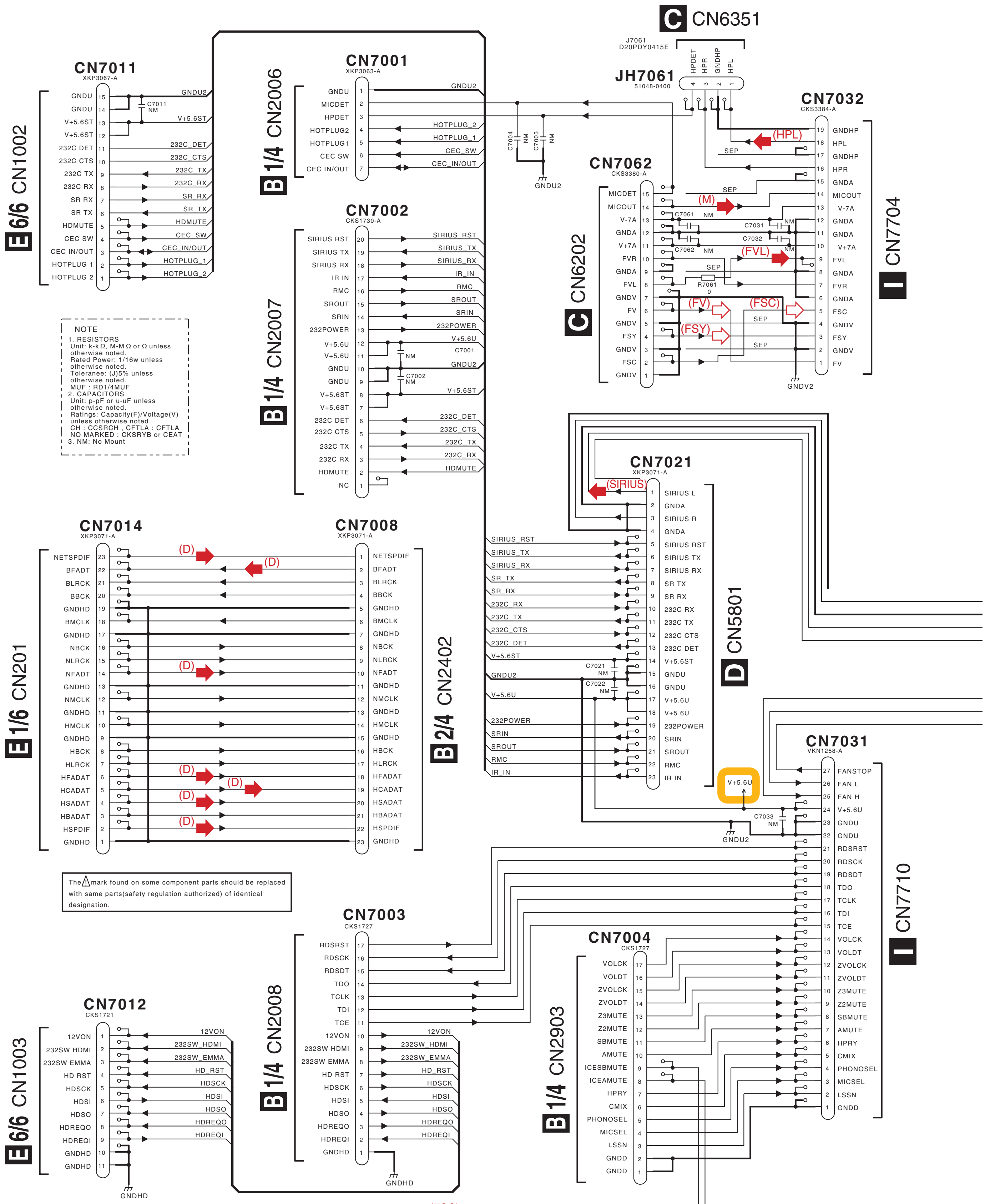
E 6/6

E 6/6 HDMI NETWORK ASSY (SC-07 : AWX9135) (SC-05 : AWX9190)



V+3R3HD
V+1R8HD
R1029
0
R1030
0
L1021
ATL7010-A
R1021
ACN7160-A
0.056
R1022
ACN7160-A
0.056
L1022
CTH1261-A
10u
L1023
ATH7060-A
6u
R1025
ACN7160-A
0.056
R1026
ACN7160-A
0.056
D1023
RLZ5.6B
D1024
RLZ5.6B
C1044
NM
C1023
CCG1233-A-T
47u/10
C1046
1000p/50
C1024
4.7u/10
SP8K1
Q1021
Q1022
D1-1
D1-2
D2-1
D2-2
S1
G1
S2
G2
C1041
0.1u/25
C1021
NM
C1048
CCG1195-A
C1043
NM
C1022
CCG1195-A
C1049
NM
C1042
0.1u/25
C1047
1000p/50
C1026
4.7u/10
C1027
CCG1233-A-T
47u/10
C1045
NM
GNDDH
GNDDH
GNDDH
R1031
0
C1031
0.1u/25
D1022
RB160VA-40
C1029
0.1u/25
D1021
RB160VA-40
C1032
1u/10
C1030
0.1u/25
R1032
0
R1038
18k
R1033
NM
R1039
5.6k
R1034
33k
R1035
10k
IC1021
LTC3850EGN
FREQ/PLLFLTR
MODE/PLLIN
SW1
TG1
BOOST1
BG1
VIN
INTVCC
BG2
PGND
BOOST2
TG2
SW2
PGOOD
RUN1
SENSE1+
SENSE1-
TK/SS1
ITH1
VFB1
SGND
VFB2
ITH2
TK/SS2
SENSE2-
SENSE2+
RUN2
ILIM(EXTVCC)
C1033
1000p/50
C1034
1000p/50
R1040
NM
R1041
NM
R1027
15k (F)
C1028
100p/50
R1028
12k (F)
C1035
0.022u/16
C1036
2200p/50
R1036
10k
C1037
47p/50
C1038
120p/50
C1039
680p/50
R1037
12k
C1040
0.022u/16
C1025
100p/50
R1023
47k (F)
R1024
15k (F)
GNDDH

10.14 INTERFACE ASSY

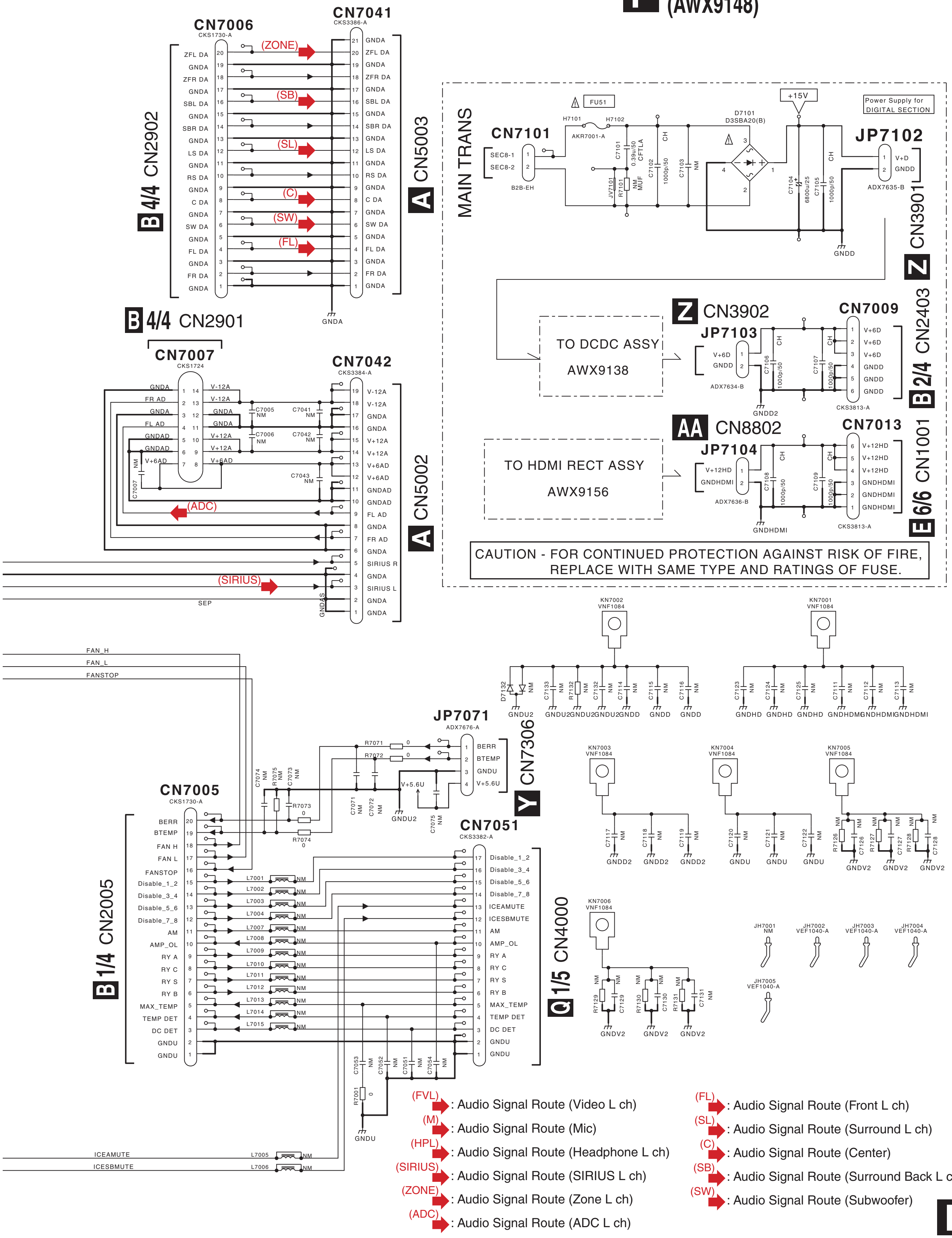

E 6/6 CN1002
CN7011
XKP3067-A
B 1/4 CN2006
CN7001
XKP3063-A
C CN6351
J7061
D20PDY0415E
JH7061
51048-0400
CN7032
CKS3384-A
CN7062
CKS3380-A
C CN6202
I CN7704
B 1/4 CN2007
CN7002
CKS1730-A
CN7021
XKP3071-A
D CN5801
E 1/6 CN201
CN7014
XKP3071-A
CN7008
XKP3071-A
B 2/4 CN2402
CN7031
VKN1258-A
I CN7710
E 6/6 CN1003
CN7012
CKS1721
B 1/4 CN2008
CN7003
CKS1727
CN7004
CKS1727
B 1/4 CN2903
(HPL)
(M)
(FVL)
(FV)
(FSC)
(FSY)
(SIRIUS)
(D)
V+5.6U
GNDU2
GNDV2
GNDHD

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
MUF : RD1/4MUF
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH , CFTLA : CFTLA
NO MARKED : CKSRYB or CEAT
3. NM: No Mount

The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

(FSC) ⇨ : S-Video Signal Route (Front C)
(FSY) ⇨ : S-Video Signal Route (Front Y)
(FV) ⇨ : Video Signal Route (Video)
(D) ➡ : Audio Data Route

F INTERFACE ASSY (AWX9148)



A
B
C
D
E
F
CN7006
CKS1730-A
B 4/4 CN2902
ZFL DA
GNDA
ZFR DA
SBL DA
SBR DA
LS DA
RS DA
C DA
SW DA
FL DA
FR DA
(ZONE)
(SB)
(SL)
(C)
(SW)
(FL)
CN7041
CKS3386-A
A CN5003
GNDA
B 4/4 CN2901
CN7007
CKS1724
V-12A
V+12A
V+6AD
GNDAD
FL AD
FR AD
C7005 NM
C7006 NM
C7041 NM
C7042 NM
C7043 NM
C7007 NM
(ADC)
CN7042
CKS3384-A
A CN5002
SIRIUS R
SIRIUS L
(SIRIUS)
SEP
GNDAS
MAIN TRANS
CN7101
SEC8-1
SEC8-2
B2B-EH
FU51
H7101
H7102
AKR7001-A
C7101 0.39u/50 CFTLA
JV7101
R7101 NM MUF
C7102 1000p/50
C7103 NM
CH
D7101 D3SBA20(B)
+15V
C7104 6800u/25
C7105 1000p/50
Power Supply for DIGITAL SECTION
JP7102
V+D
GNDD
ADX7635-B
Z CN3901
TO DCDC ASSY
AWX9138
Z CN3902
JP7103
V+6D
GNDD
ADX7634-B
C7106 1000p/50
C7107 1000p/50
GNDD2
CN7009
CKS3813-A
B 2/4 CN2403
TO HDMI RECT ASSY
AWX9156
AA CN8802
JP7104
V+12HD
GNDHDMI
ADX7636-B
C7108 1000p/50
C7109 1000p/50
CN7013
CKS3813-A
E 6/6 CN1001
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.
KN7002 VNF1084
KN7001 VNF1084
D7132
C7133
R7132
C7132
C7114
C7115
C7116
C7123
C7124
C7125
C7111
C7112
C7113
GNDU2
GNDD
GNDHD
GNDHDMI
FAN_H
FAN_L
FANSTOP
JP7071
ADX7676-A
BERR
BTEMP
GNDU
V+5.6U
Y CN7306
R7071 0
R7072 0
R7073 0
R7074 0
R7075 NM
C7071 NM
C7072 NM
C7073 NM
C7074 NM
C7075 NM
GNDU2
KN7003 VNF1084
KN7004 VNF1084
KN7005 VNF1084
C7117
C7118
C7119
C7120
C7121
C7122
GNDD2
GNDU
R7126
C7126
R7127
C7127
R7128
C7128
GNDV2
CN7005
CKS1730-A
B 1/4 CN2005
FAN H
FAN L
FANSTOP
Disable_1_2
Disable_3_4
Disable_5_6
Disable_7_8
AM
AMP_OL
RY A
RY C
RY S
RY B
MAX_TEMP
TEMP DET
DC DET
GNDU
L7001
L7002
L7003
L7004
L7007
L7008
L7009
L7010
L7011
L7012
L7013
L7014
L7015
CN7051
CKS3382-A
ICEAMUTE
ICESBMUTE
Q 1/5 CN4000
KN7006 VNF1084
R7129
C7129
R7130
C7130
R7131
C7131
JH7001 NM
JH7002 VEF1040-A
JH7003 VEF1040-A
JH7004 VEF1040-A
JH7005 VEF1040-A
C7053 NM
C7052 NM
C7051 NM
C7054 NM
R7001 0
L7005
L7006
NM

(FVL) : Audio Signal Route (Video L ch)

(M) : Audio Signal Route (Mic)

(HPL) : Audio Signal Route (Headphone L ch)

(SIRIUS) : Audio Signal Route (SIRIUS L ch)

(ZONE) : Audio Signal Route (Zone L ch)

(ADC) : Audio Signal Route (ADC L ch)

(FL) : Audio Signal Route (Front L ch)

(SL) : Audio Signal Route (Surround L ch)

(C) : Audio Signal Route (Center)

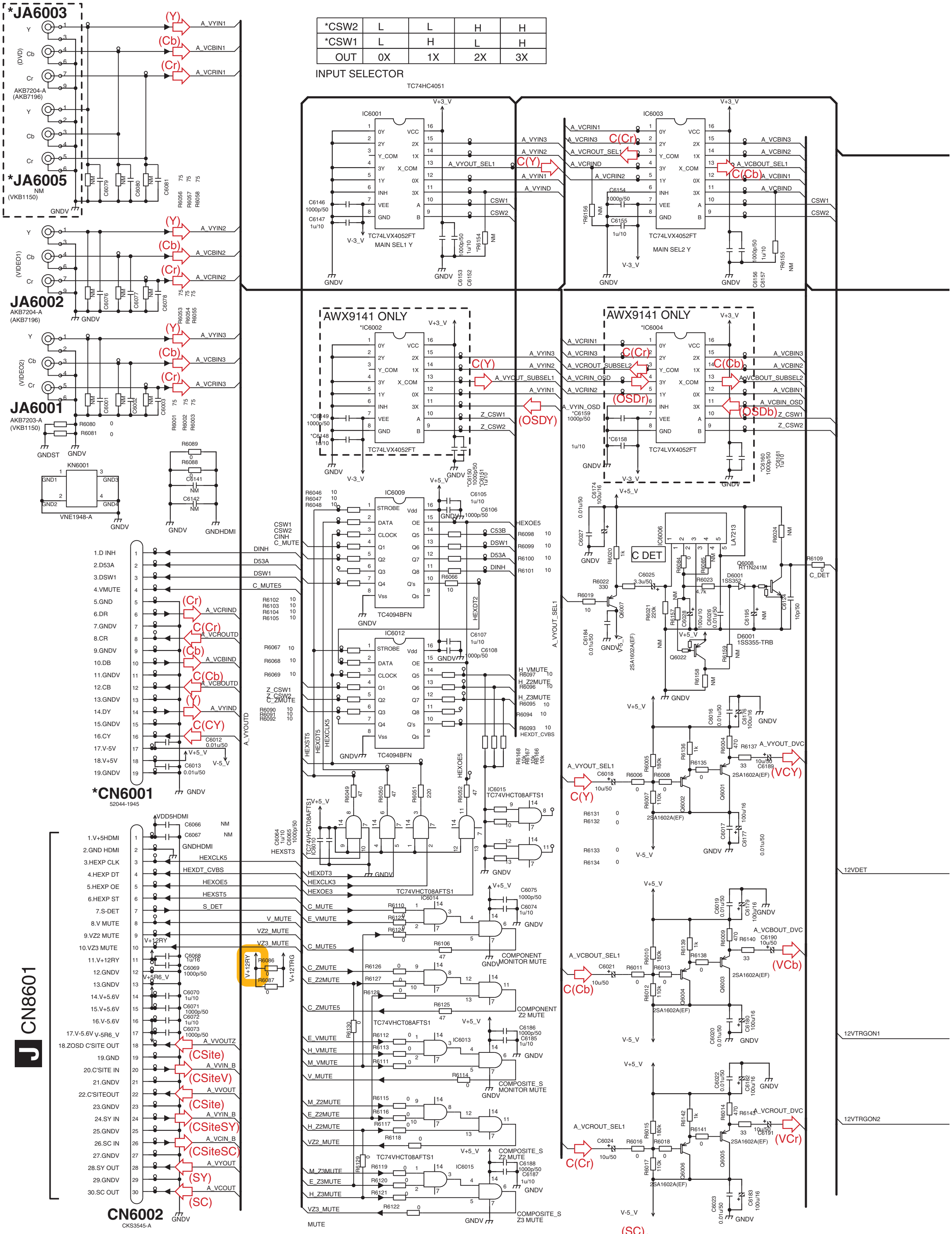
(SB) : Audio Signal Route (Surround Back L ch)

(SW) : Audio Signal Route (Subwoofer)

10.15 COMPONENT ASSY

*CSW2	L	L	H	H
*CSW1	L	H	L	H
OUT	0X	1X	2X	3X

INPUT SELECTOR


A
B
C
D
E
F
*JA6003
(DVD)
AKB7204-A (AKB7196)
*JA6005
NM (VKB1150)
JA6002
(VIDEO1)
AKB7204-A (AKB7196)
JA6001
(VIDEO2)
AKB7203-A (VKB1150)
KN6001
VNE1948-A
GNDST
GNDV
GNDHDMI
(Y)
(Cb)
(Cr)
A_VYIN1
A_VCBIN1
A_VCRIN1
A_VYIN2
A_VCBIN2
A_VCRIN2
A_VYIN3
A_VCBIN3
A_VCRIN3
TC74HC4051
IC6001
TC74LVX4052FT
MAIN SEL1 Y
IC6003
MAIN SEL2 Y
A_VYOUT_SEL1
A_VCBOUT_SEL1
A_VCROUT_SEL1
CSW1
CSW2
C(Y)
C(Cr)
C(Cb)
V+3_V
V-3_V
AWX9141 ONLY
*IC6002
*IC6004
A_VYOUT_SUBSEL1
A_VCBOUT_SUBSEL2
A_VCROUT_SUBSEL2
A_VYIN_OSD
A_VCBIN_OSD
A_VCRIN_OSD
(OSDY)
(OSDr)
(OSDb)
Z_CSW1
Z_CSW2
IC6009
IC6012
TC4094BFN
STROBE
DATA
CLOCK
HEXOE5
C53B
DSW1
D53A
DINH
HEXDT2
H_VMUTE
H_Z2MUTE
H_Z3MUTE
HEXDT_CVBS
IC6006
LA7213
C DET
Q6008
RT1N241M
D6001
1SS352
1SS355-TRB
Q6007
Q6022
2SA1602A(EF)
A_VYOUT_DVC
A_VCBOUT_DVC
A_VCROUT_DVC
(VCY)
(VCb)
(VCr)
C(Y)
C(Cb)
C(Cr)
12VDET
12VTRGON1
12VTRGON2
*CN6001
52044-1945
1.D INH
2.D53A
3.DSW1
4.VMUTE
5.GND
6.DR
7.GNDV
8.CR
9.GNDV
10.DB
11.GNDV
12.CB
13.GNDV
14.DY
15.GNDV
16.CY
17.V-5V
18.V+5V
19.GNDV
A_VCRIND
A_VCROUTD
A_VCBIND
A_VCBOUTD
A_VYIND
A_VYOUTD
C(CY)
J CN8601
CN6002
CKS3545-A
1.V+5HDMI
2.GND HDMI
3.HEXP CLK
4.HEXP DT
5.HEXP OE
6.HEXP ST
7.S-DET
8.V MUTE
9.VZ2 MUTE
10.VZ3 MUTE
11.V+12RY
12.GNDV
13.GNDV
14.V+5.6V
15.V+5.6V
16.V-5.6V
17.V-5.6V V-5R6_V
18.ZOSD C'SITE OUT
19.GND
20.C'SITE IN
21.GNDV
22.C'SITEOUT
23.GNDV
24.SY IN
25.GNDV
26.SC IN
27.GNDV
28.SY OUT
29.GNDV
30.SC OUT
(CSite)
(CSiteV)
(CSiteSY)
(CSiteSC)
(SY)
(SC)
A_VVOUTZ
A_VVIN_B
A_VVOUT
A_VYIN_B
A_VCIN_B
A_VYOUT
A_VCOUT
V+12RY
V+12TRG
TC74VHCT08AFTS1
IC6010
IC6013
IC6014
IC6015
COMPONENT MONITOR MUTE
COMPONENT Z2 MUTE
COMPOSITE_S MONITOR MUTE
COMPOSITE_S Z2 MUTE
COMPOSITE_S Z3 MUTE
MUTE
C_MUTE
E_VMUTE
C_MUTE5
C_ZMUTE
E_Z2MUTE
C_ZMUTE5
H_VMUTE
M_VMUTE
V_MUTE
M_Z2MUTE
E_Z2MUTE
H_Z2MUTE
VZ2_MUTE
M_Z3MUTE
E_Z3MUTE
H_Z3MUTE
VZ3_MUTE
HEXDT3
HEXCLK3
HEXOE3
HEXST5
HEXCLK5
S_DET

(SC) : S-Video Signal Route (C)

(SY) : S-Video Signal Route (Y)

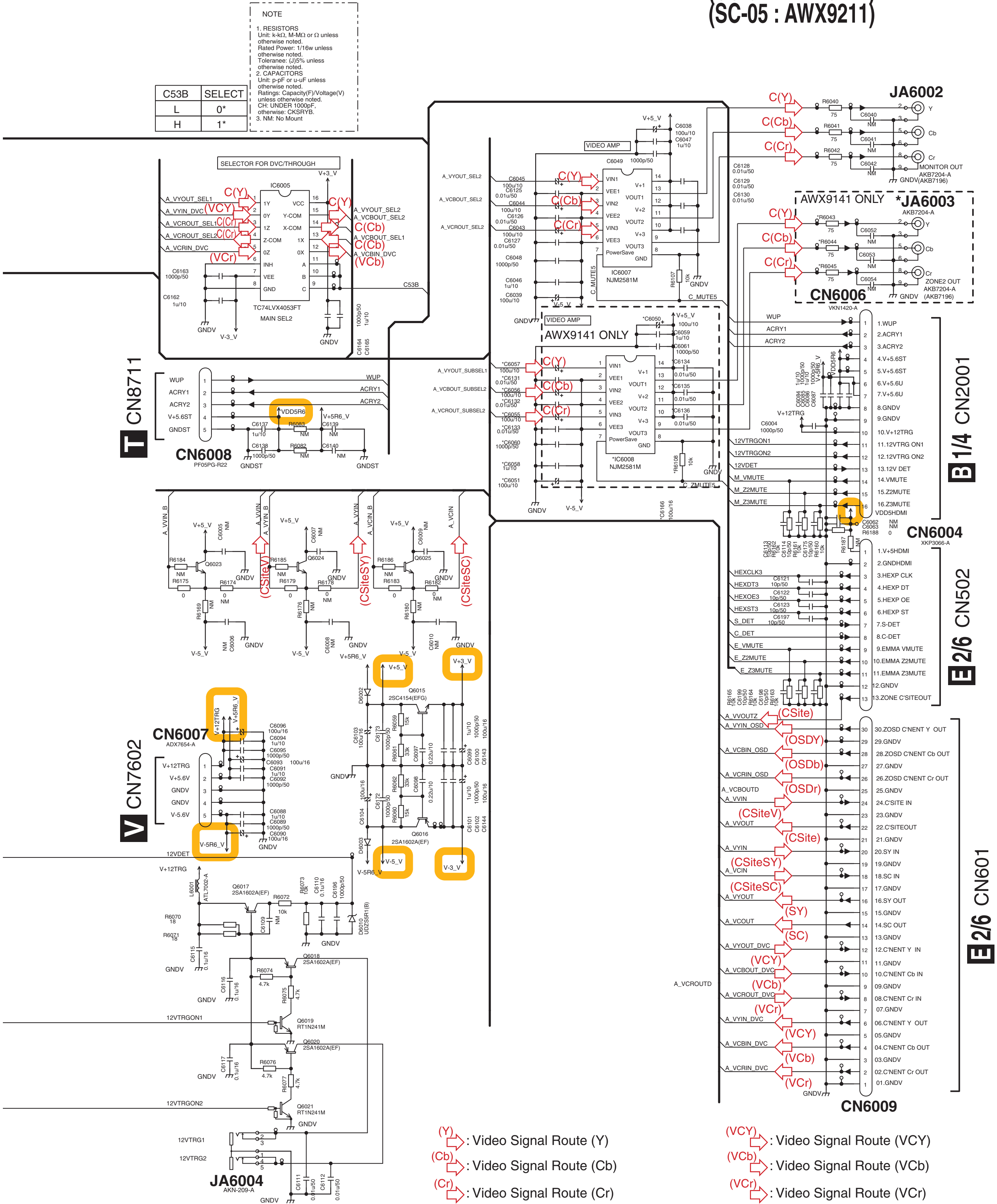
(CSiteSC) : Video Signal Route (Composite C)

G COMPONENT ASSY
(SC-07 : AWX9141)
(SC-05 : AWX9211)

NOTE

1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH: UNDER 1000pF, otherwise: CKSRYB.
3. NM: No Mount

C53B	SELECT
L	0*
H	1*



SELECTOR FOR DVC/THROUGH
IC6005
TC74LVX4053FT
MAIN SEL2
VIDEO AMP
IC6007
NJM2581M
VIDEO AMP
AWX9141 ONLY
*IC6008
NJM2581M
JA6002
AKB7204-A (AKB7196)
MONITOR OUT
AWX9141 ONLY
*JA6003
AKB7204-A (AKB7196)
ZONE2 OUT
CN6006
VKN1420-A
CN6004
XKP3066-A
CN6009
CN6008
PF05PG-R22
CN6007
ADX7654-A
JA6004
AKN-209-A
T CN8711
V CN7602
B 1/4 CN2001
E 2/6 CN502
E 2/6 CN601
C53B
Q6015 2SC4154(EFG)
Q6016 2SA1602A(EF)
Q6017 2SA1602A(EF)
Q6018 2SA1602A(EF)
Q6019 RT1N241M
Q6020 2SA1602A(EF)
Q6021 RT1N241M
L6001 ATL7002-A
D6010 UDZS5R1(B)
V+5_V
V-5_V
V+3_V
V-3_V
V+12TRG
V+5R6_V
V-5R6_V
VDD5R6
VDD5HDMI
12VDET
12VTRGON1
12VTRGON2
12VTRG1
12VTRG2
GNDV
GNDST
A_VCROUTD
1.WUP
2.ACRY1
3.ACRY2
4.V+5.6ST
5.V+5.6ST
6.V+5.6U
7.V+5.6U
8.GNDV
9.GNDV
10.V+12TRG
11.12VTRG ON1
12.12VTRG ON2
13.12V DET
14.VMUTE
15.Z2MUTE
16.Z3MUTE
1.V+5HDMI
2.GNDHDMI
3.HEXP CLK
4.HEXP DT
5.HEXP OE
6.HEXP ST
7.S-DET
8.C-DET
9.EMMA VMUTE
10.EMMA Z2MUTE
11.EMMA Z3MUTE
12.GNDV
13.ZONE C'SITEOUT
30.ZOSD C'NENT Y OUT
29.GNDV
28.ZOSD C'NENT Cb OUT
27.GNDV
26.ZOSD C'NENT Cr OUT
25.GNDV
24.C'SITE IN
23.GNDV
22.C'SITEOUT
21.GNDV
20.SY IN
19.GNDV
18.SC IN
17.GNDV
16.SY OUT
15.GNDV
14.SC OUT
13.GNDV
12.C'NENT Y IN
11.GNDV
10.C'NENT Cb IN
09.GNDV
08.C'NENT Cr IN
07.GNDV
06.C'NENT Y OUT
05.GNDV
04.C'NENT Cb OUT
03.GNDV
02.C'NENT Cr OUT
01.GNDV

(Y) : Video Signal Route (Y)

(Cb) : Video Signal Route (Cb)

(Cr) : Video Signal Route (Cr)

C(Y) : Video Signal Route (Component Y)

C(Cb) : Video Signal Route (Component Cb)

C(Cr) : Video Signal Route (Component Cr)

(VCY) : Video Signal Route (VCY)

(VCb) : Video Signal Route (VCb)

(VCr) : Video Signal Route (VCr)

(OSDY) : Video Signal Route (OSDY)

(OSDb) : Video Signal Route (OSDb)

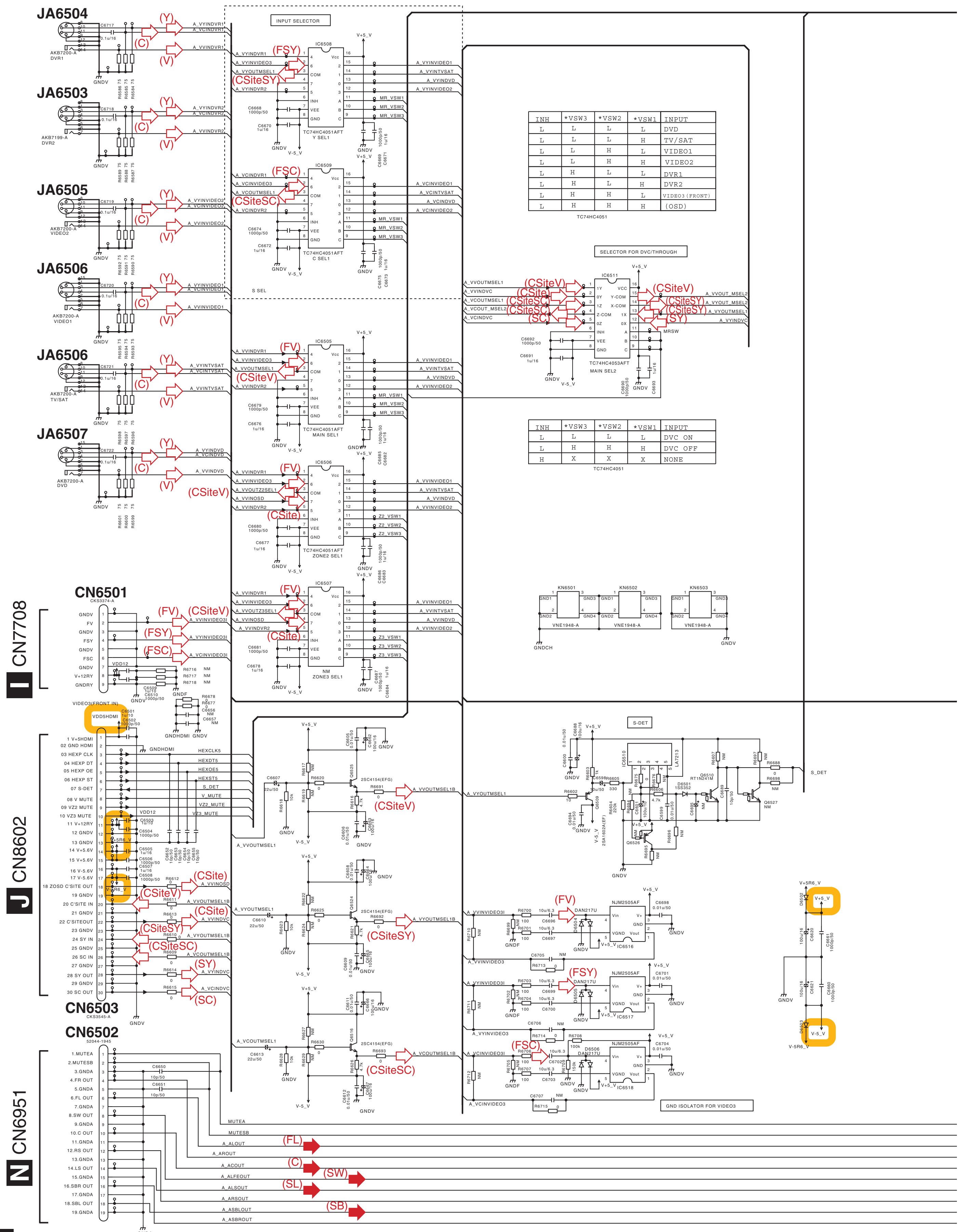
(OSDr) : Video Signal Route (OSDr)

(CSiteSY) : Video Signal Route (Composite Y)

(CSiteV) : Video Signal Route (Composite Video)

(CSite) : Video Signal Route (Composite)

10.16 COMPOSITE S ASSY



JA6504
JA6503
JA6505
JA6506
JA6506
JA6507
AKB7200-A DVR1
AKB7199-A DVR2
AKB7200-A VIDEO2
AKB7200-A VIDEO1
AKB7200-A TV/SAT
AKB7200-A DVD
(Y)
(C)
(V)
INPUT SELECTOR
IC6508
TC74HC4051AFT Y SEL1
IC6509
TC74HC4051AFT C SEL1
S SEL
IC6505
TC74HC4051AFT MAIN SEL1
IC6506
TC74HC4051AFT ZONE2 SEL1
IC6507
ZONE3 SEL1
(FSY)
(CSiteSY)
(FSC)
(CSiteSC)
(FV)
(CSiteV)
(CSite)
SELECTOR FOR DVC/THROUGH
IC6511
TC74HC4053AFT MAIN SEL2
(SY)
(SC)
MRSW
KN6501
KN6502
KN6503
VNE1948-A
GNDCH
CN6501
CKS3374-A
CN7708
I
VIDEO3(FRONT IN)
VDD5HDMI
CN8602
J
CN6503
CKS3545-A
CN6502
52044-1945
CN6951
N
S-DET
S_DET
LA7213
Q6510 RT1N241M
Q6526 2SA1602A(EF)
Q6527
D6501 1SS352
2SC4154(EFG)
A_VVOUTMSEL1B
A_VYOUTMSEL1B
A_VCOUTMSEL1B
NJM2505AF
IC6516
IC6517
IC6518
DAN217U
GND ISOLATOR FOR VIDEO3
(FL)
(SW)
(SL)
(SB)
MUTEA
MUTESB
A_ALOUT
A_AROUT
A_ACOUT
A_ALFEOUT
A_ALSOUT
A_ARSOUT
A_ASBLOUT
A_ASBROUT
V+5R6_V
V-5R6_V

INH	*VSW3	*VSW2	*VSW1	INPUT
L	L	L	L	DVD
L	L	L	H	TV/SAT
L	L	H	L	VIDEO1
L	L	H	H	VIDEO2
L	H	L	L	DVR1
L	H	L	H	DVR2
L	H	H	L	VIDEO3(FRONT)
L	H	H	H	(OSD)

TC74HC4051

INH	*VSW3	*VSW2	*VSW1	INPUT
L	L	L	L	DVC ON
L	H	H	H	DVC OFF
H	X	X	X	NONE

TC74HC4051

H

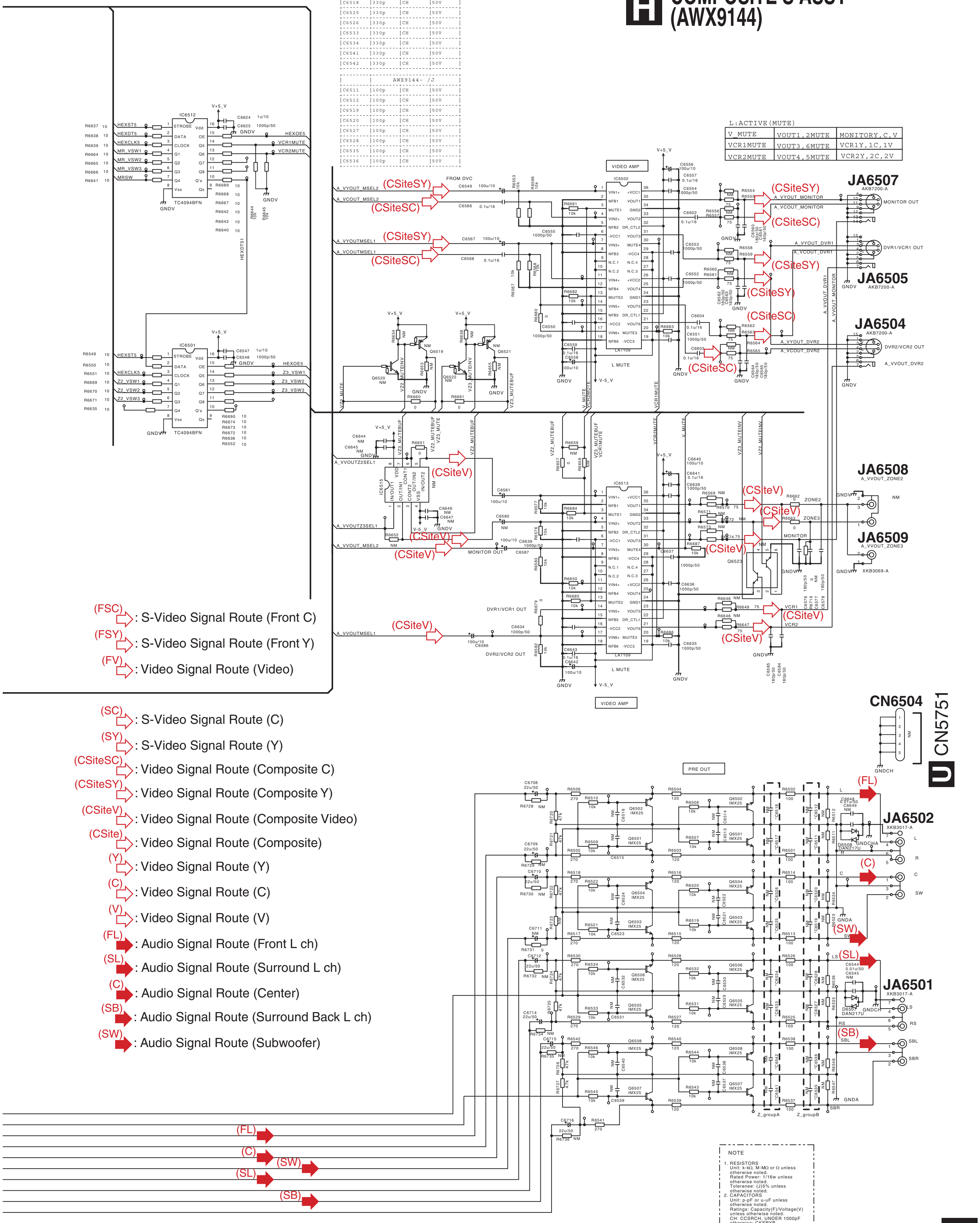
H COMPOSITE S ASSY (AWX9144)

	AWX9144- /J		
C6517	330p	CH	50V
C6518	330p	CH	50V
C6525	330p	CH	50V
C6526	330p	CH	50V
C6533	330p	CH	50V
C6534	330p	CH	50V
C6541	330p	CH	50V
C6542	330p	CH	50V

	AWX9144- /J		
C6511	100p	CH	50V
C6512	100p	CH	50V
C6519	100p	CH	50V
C6520	100p	CH	50V
C6527	100p	CH	50V
C6528	100p	CH	50V
C6535	100p	CH	50V
C6536	100p	CH	50V

L:ACTIVE(MUTE)

V_MUTE	VOUT1,2MUTE	MONITORY,C,V
VCR1MUTE	VOUT3,6MUTE	VCR1Y,1C,1V
VCR2MUTE	VOUT4,5MUTE	VCR2Y,2C,2V


IC6512
TC4094BFN
IC6501
TC4094BFN
IC6502
IC6513
IC6515
VIDEO AMP
LA7109
FROM DVC
MONITOR OUT
DVR1/VCR1 OUT
DVR2/VCR2 OUT
JA6507
AKB7200-A
JA6505
AKB7200-A
JA6504
AKB7200-A
JA6508
A_VVOUT_ZONE2
JA6509
A_VVOUT_ZONE3
XKB3069-A
ZONE2
ZONE3
MONITOR
VCR1
VCR2
CN6504
CN5751
PRE OUT
JA6502
XKB3017-A
JA6501
XKB3017-A
Z_groupA
Z_groupB
GNDV
GNDA
(CSiteSY)
(CSiteSC)
(CSiteV)
(FL)
(C)
(SW)
(SL)
(SB)

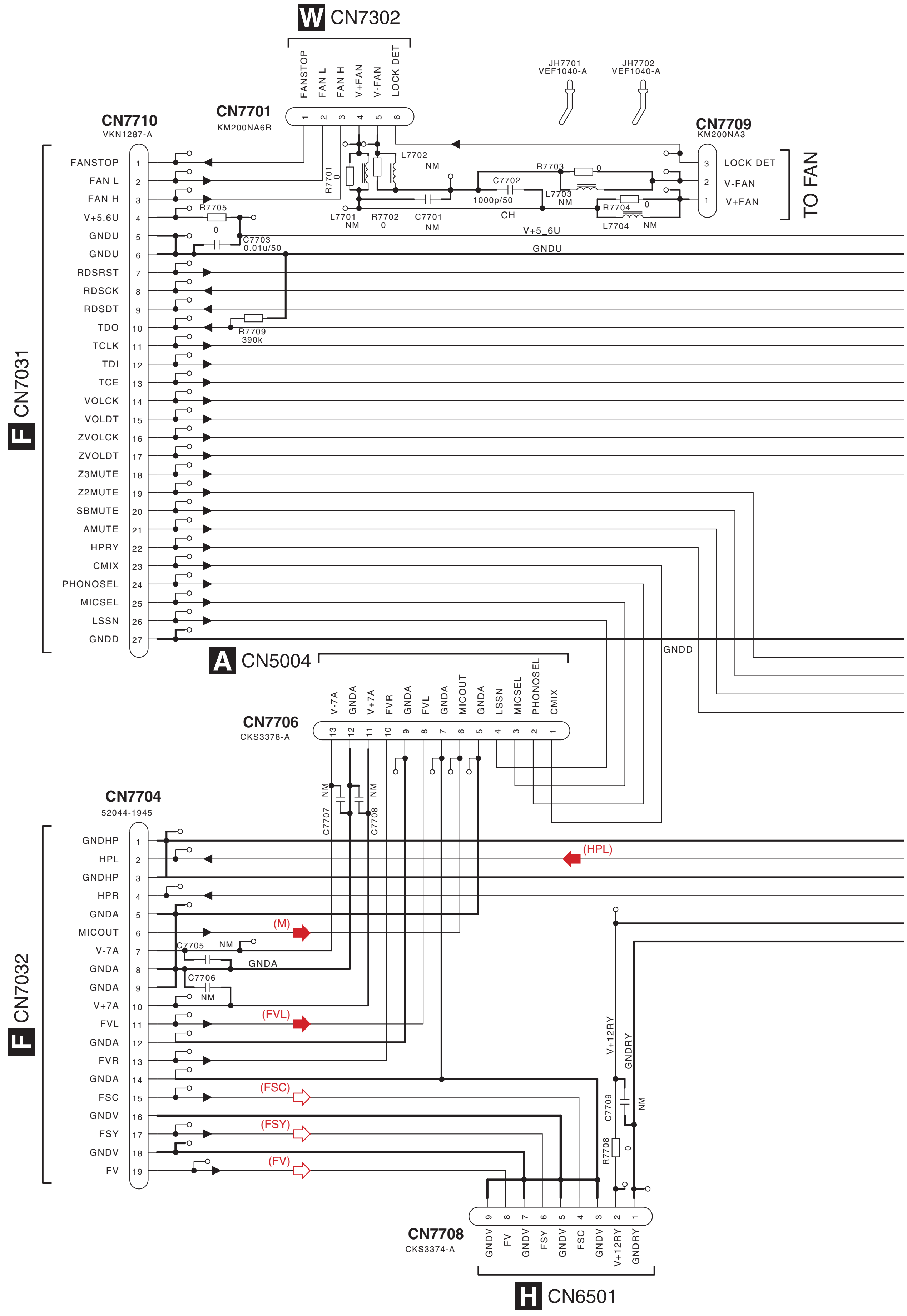
(FSC) : S-Video Signal Route (Front C)
(FSY) : S-Video Signal Route (Front Y)
(FV) : Video Signal Route (Video)

(SC) : S-Video Signal Route (C)
(SY) : S-Video Signal Route (Y)
(CSiteSC) : Video Signal Route (Composite C)
(CSiteSY) : Video Signal Route (Composite Y)
(CSiteV) : Video Signal Route (Composite Video)
(CSite) : Video Signal Route (Composite)
(Y) : Video Signal Route (Y)
(C) : Video Signal Route (C)
(V) : Video Signal Route (V)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center)
(SB) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (Subwoofer)

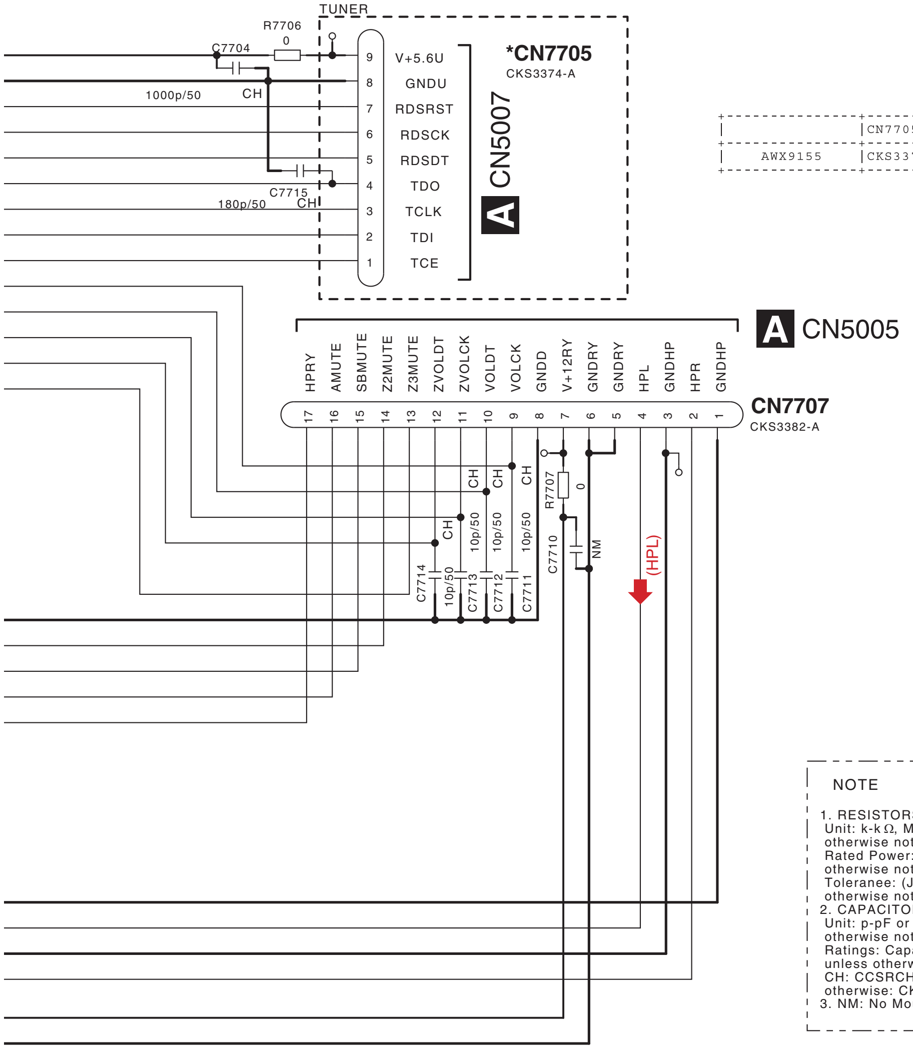
NOTE

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16w unless otherwise noted.
   Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH: CCSRCH, UNDER 1000pF otherwise: CKSRYB.
3. NM: No Mount

10.17 FRONT BRIDGE ASSY


W CN7302
FANSTOP
FAN L
FAN H
V+FAN
V-FAN
LOCK DET
CN7701
KM200NA6R
1 2 3 4 5 6
JH7701
VEF1040-A
JH7702
VEF1040-A
CN7709
KM200NA3
LOCK DET
V-FAN
V+FAN
TO FAN
CN7710
VKN1287-A
F CN7031
FANSTOP 1
FAN L 2
FAN H 3
V+5.6U 4
GNDU 5
GNDU 6
RDSRST 7
RDSCK 8
RDSDT 9
TDO 10
TCLK 11
TDI 12
TCE 13
VOLCK 14
VOLDT 15
ZVOLCK 16
ZVOLDT 17
Z3MUTE 18
Z2MUTE 19
SBMUTE 20
AMUTE 21
HPRY 22
CMIX 23
PHONOSEL 24
MICSEL 25
LSSN 26
GNDD 27
R7705
0
C7703
0.01u/50
R7709
390k
R7701
0
L7701
NM
R7702
0
C7701
NM
L7702
NM
C7702
1000p/50
CH
R7703
0
L7703
NM
R7704
0
L7704
NM
V+5_6U
GNDU
GNDD
A CN5004
CN7706
CKS3378-A
V-7A
GNDA
V+7A
FVR
GNDA
FVL
GNDA
MICOUT
GNDA
LSSN
MICSEL
PHONOSEL
CMIX
13 12 11 10 9 8 7 6 5 4 3 2 1
C7707
NM
C7708
NM
CN7704
52044-1945
F CN7032
GNDHP 1
HPL 2
GNDHP 3
HPR 4
GNDA 5
MICOUT 6
V-7A 7
GNDA 8
GNDA 9
V+7A 10
FVL 11
GNDA 12
FVR 13
GNDA 14
FSC 15
GNDV 16
FSY 17
GNDV 18
FV 19
(HPL)
(M)
C7705
NM
GNDA
C7706
NM
(FVL)
(FSC)
(FSY)
(FV)
V+12RY
GNDRY
C7709
NM
R7708
0
CN7708
CKS3374-A
9 8 7 6 5 4 3 2 1
GNDV
FV
GNDV
FSY
GNDV
FSC
GNDV
V+12RY
GNDRY
H CN6501

I FRONT BRIDGE ASSY (AWX9155)


TUNER
R7706
0
C7704
1000p/50
CH
C7715
180p/50
CH
*CN7705
CKS3374-A
A CN5007
9 V+5.6U
8 GNDU
7 RDSRST
6 RDSCK
5 RDSDT
4 TDO
3 TCLK
2 TDI
1 TCE
A CN5005
CN7707
CKS3382-A
17 HPRY
16 AMUTE
15 SBMUTE
14 Z2MUTE
13 Z3MUTE
12 ZVOLDT
11 ZVOLCK
10 VOLDT
9 VOLCK
8 GNDD
7 V+12RY
6 GNDRY
5 GNDRY
4 HPL
3 GNDHP
2 HPR
1 GNDHP
CH
CH
CH
CH
10p/50
10p/50
10p/50
10p/50
C7714
C7713
C7712
C7711
R7707
0
C7710
NM
(HPL)

	CN7705
AWX9155	CKS3374-A

NOTE

1. RESISTORS
   Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
   Rated Power: 1/16w unless otherwise noted.
   Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH: CCSRCH,
   otherwise: CKSRYB.
3. NM: No Mount

(FSC) ⇨ : S-Video Signal Route (Front C)

(FSY) ⇨ : S-Video Signal Route (Front Y)

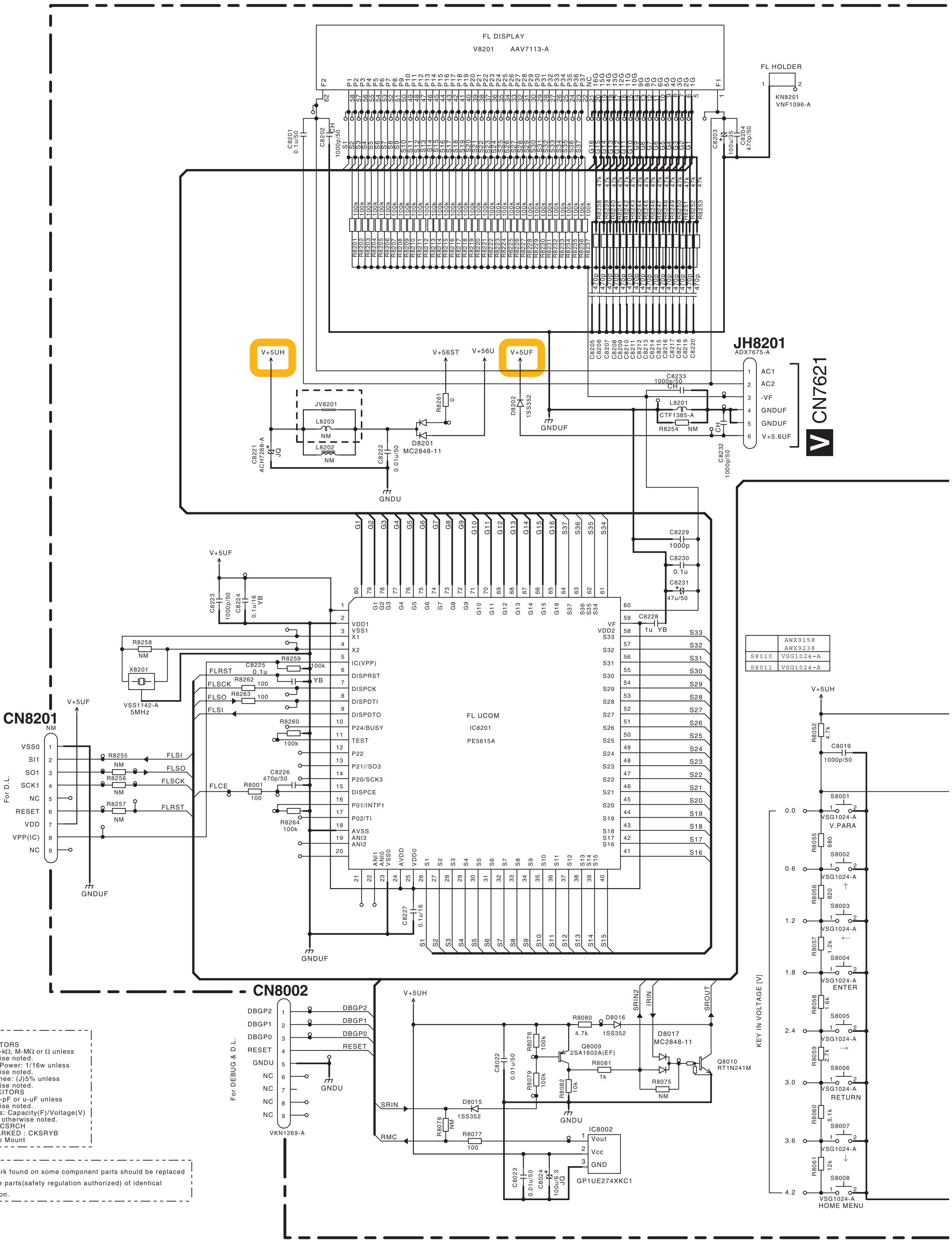
(FV) ⇨ : Video Signal Route (Video)

(FVL) ➡ : Audio Signal Route (Video L ch)

(M) ➡ : Audio Signal Route (Mic)

(HPL) ➡ : Audio Signal Route (Headphone L ch)

10.18 DISPLAY, VOL and POWER SW ASSYS

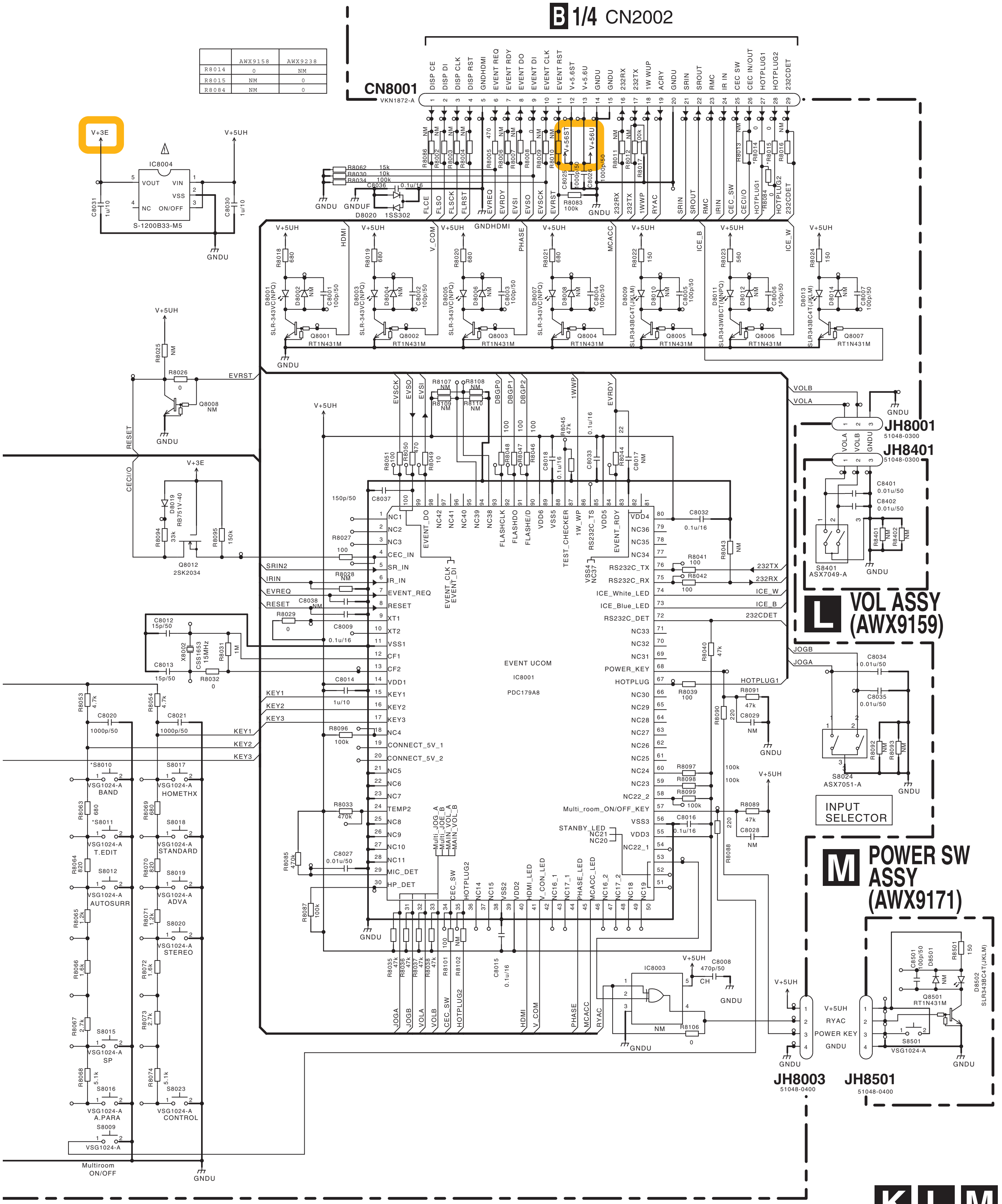

FL DISPLAY
V8201 AAV7113-A
FL HOLDER
KN8201
VNF1096-A
JH8201
ADX7675-A
V CN7621
AC1
AC2
-VF
GNDUF
GNDUF
V+5.6UF
V+5UH
V+56ST
V+56U
V+5UF
GNDUF
GNDU
JV8201
L8203 NM
L8202 NM
D8201 MC2848-11
D8202 1SS352
L8201 CTF1385-A
R8254 NM
C8221 ACH7288-A
FL UCOM
IC8201
PE5615A
X8201
VSS1142-A
5MHz
CN8201
NM
For D.L.
VSS0
SI1
SO1
SCK1
NC
RESET
VDD
VPP(IC)
NC
FLSI
FLSO
FLSCK
FLRST
FLCE
CN8002
For DEBUG & D.L.
DBGP2
DBGP1
DBGP0
RESET
GNDU
NC
VKN1269-A
SRIN
RMC
SRIN2
IRIN
SROUT
Q8009 2SA1602A(EF)
D8017 MC2848-11
Q8010 RT1N241M
D8015 1SS352
D8016 1SS352
IC8002
Vout
Vcc
GND
GP1UE274XKC1
KEY IN VOLTAGE [V]
0.0
0.6
1.2
1.8
2.4
3.0
3.6
4.2
S8001 VSG1024-A V.PARA
S8002 VSG1024-A
S8003 VSG1024-A
S8004 VSG1024-A ENTER
S8005 VSG1024-A
S8006 VSG1024-A RETURN
S8007 VSG1024-A
S8008 VSG1024-A HOME MENU

	AWX9158
	AWX9238
S8010	VSG1024-A
S8011	VSG1024-A

NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16w unless otherwise noted.
   Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH : CCSRCH
   NO MARKED : CKSRYB
3. NM: No Mount

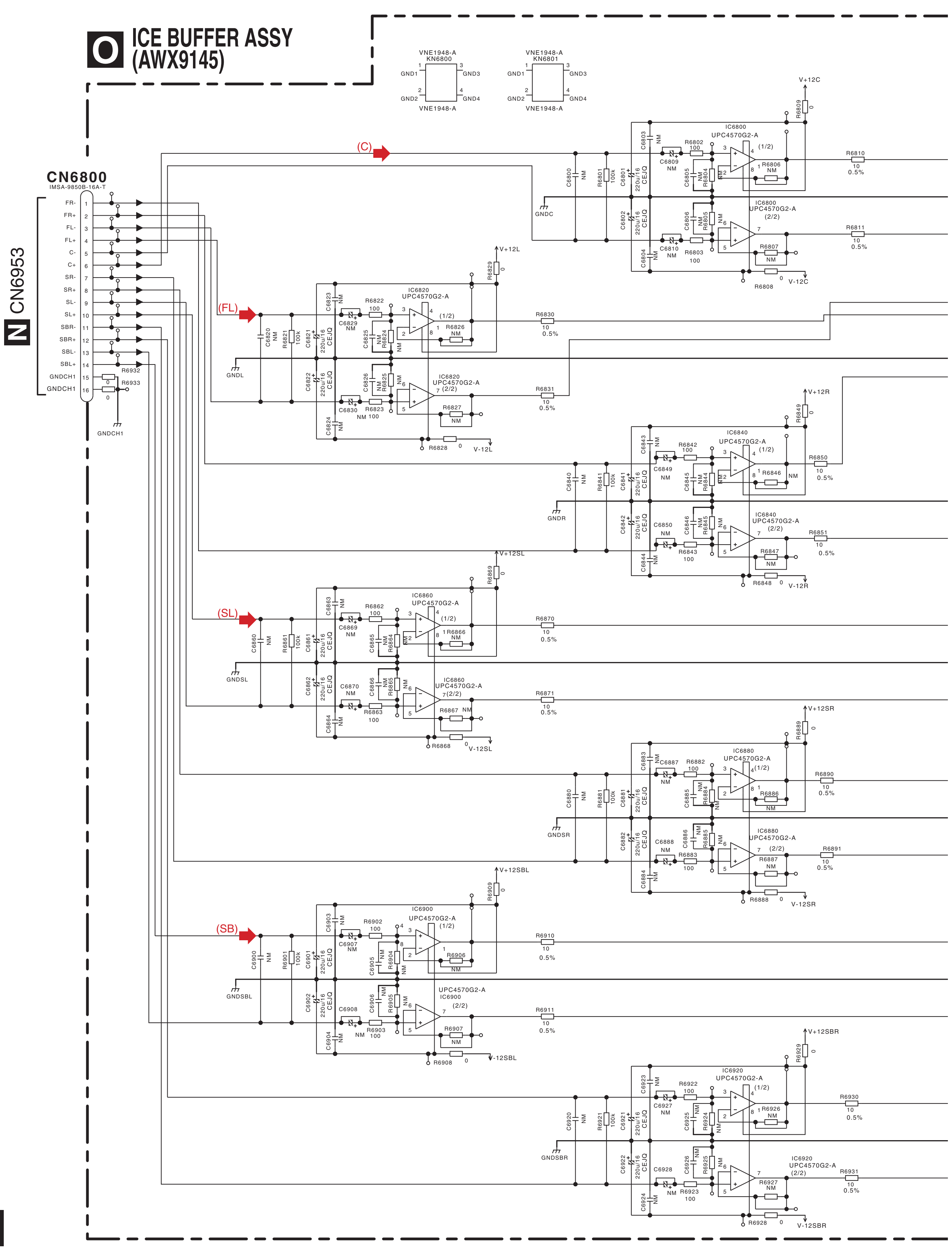
The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

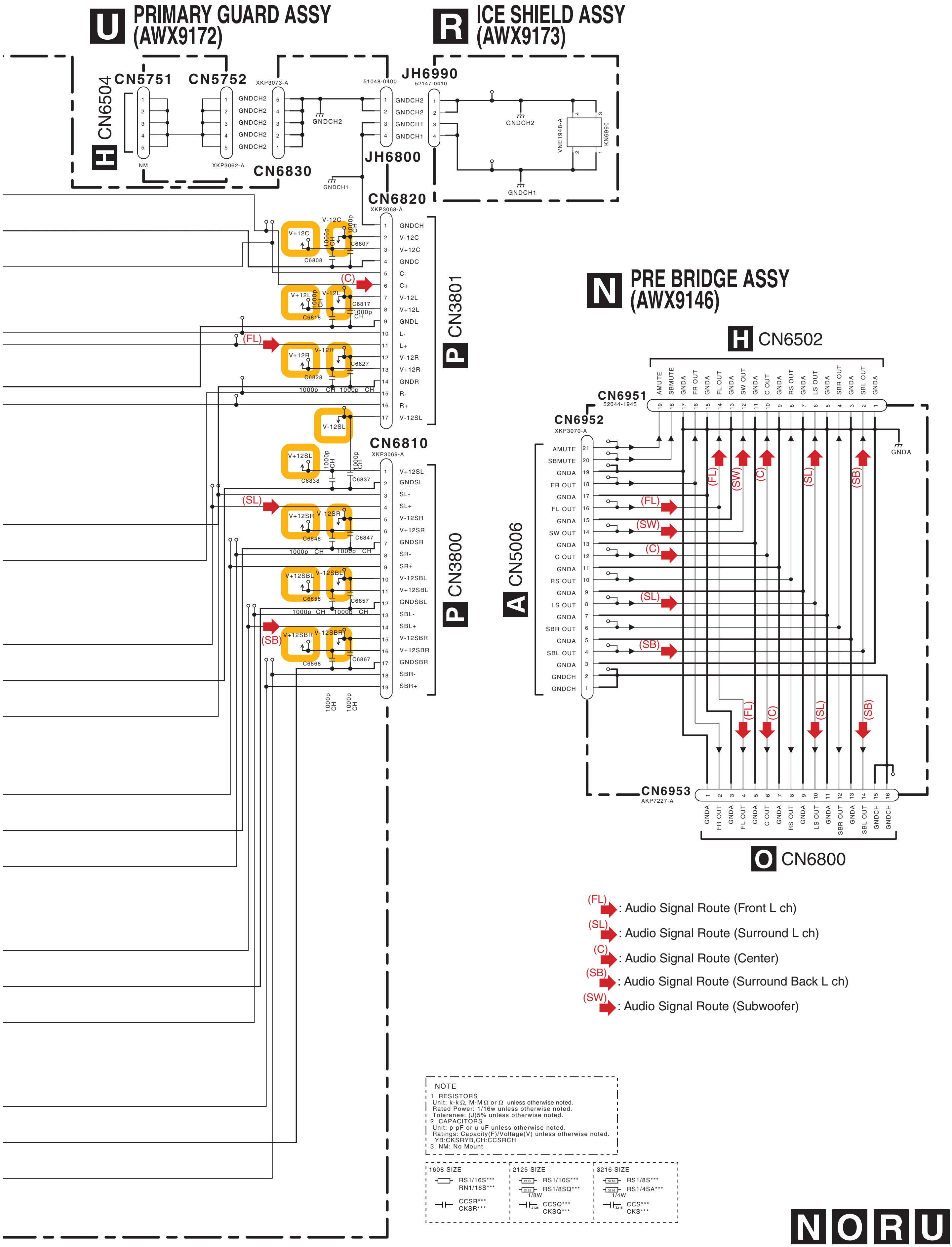
K DISPLAY ASSY
(SC-07 : AWX9158)
(SC-05 : AWX9238)


B 1/4 CN2002
CN8001
VKN1872-A
DISP CE
DISP DI
DISP CLK
DISP RST
GNDHDMI
EVENT REQ
EVENT RDY
EVENT DO
EVENT DI
EVENT CLK
EVENT RST
V+5.6ST
V+5.6U
GNDU
232RX
232TX
1W WUP
ACRY
SRIN
SROUT
RMC
IR IN
CEC SW
CEC IN/OUT
HOTPLUG1
HOTPLUG2
232CDET
V+3E
V+5UH
IC8004
S-1200B33-M5
VOUT
VIN
VSS
NC
ON/OFF
GNDU
GNDUF
D8020 1SS302
Q8001 RT1N431M
Q8002 RT1N431M
Q8003 RT1N431M
Q8004 RT1N431M
Q8005 RT1N431M
Q8006 RT1N431M
Q8007 RT1N431M
Q8008 NM
Q8012 2SK2034
D8019 RB751V-40
X8002 CSS1653 15MHz
EVENT UCOM
IC8001
PDC179A8
IC8003
JH8001 51048-0300
JH8401 51048-0300
VOLA
VOLB
GNDU
C8401 0.01u/50
C8402 0.01u/50
S8401 ASX7049-A
L VOL ASSY
(AWX9159)
JOGB
JOGA
S8024 ASX7051-A
INPUT SELECTOR
M POWER SW ASSY
(AWX9171)
JH8003 51048-0400
JH8501 51048-0400
V+5UH
RYAC
POWER KEY
GNDU
Q8501 RT1N431M
D8502 SLR343BC4T(JKLM)
S8501 VSG1024-A
S8010 VSG1024-A BAND
S8011 VSG1024-A T.EDIT
S8012 VSG1024-A AUTOSURR
S8015 VSG1024-A SP
S8016 VSG1024-A A.PARA
S8009 VSG1024-A
Multiroom ON/OFF
S8017 VSG1024-A HOMETHX
S8018 VSG1024-A STANDARD
S8019 VSG1024-A ADVA
S8020 VSG1024-A STEREO
S8023 VSG1024-A CONTROL
KEY1
KEY2
KEY3

	AWX9158	AWX9238
R8014	0	NM
R8015	NM	0
R8084	NM	0

10.19 PRE BRIDGE, ICE BUFFER, ICE SHIELD and PRIMARY GUARD ASSYS


O ICE BUFFER ASSY (AWX9145)
N CN6953
CN6800
IMSA-9850B-16A-T
FR-
FR+
FL-
FL+
C-
C+
SR-
SR+
SL-
SL+
SBR-
SBR+
SBL-
SBL+
GNDCH1
GNDCH1
R6932
R6933
GNDCH1
VNE1948-A
KN6800
KN6801
GND1
GND2
GND3
GND4
(C)
(FL)
(SL)
(SB)
GNDC
GNDL
GNDR
GNDSL
GNDSR
GNDSBL
GNDSBR
V+12C
V-12C
V+12L
V-12L
V+12R
V-12R
V+12SL
V-12SL
V+12SR
V-12SR
V+12SBL
V-12SBL
V+12SBR
V-12SBR
IC6800
IC6820
IC6840
IC6860
IC6880
IC6900
IC6920
UPC4570G2-A
(1/2)
(2/2)
220u/16
CEJQ
NM
100k
100
10
0.5%
R6810
R6811
R6830
R6831
R6850
R6851
R6870
R6871
R6890
R6891
R6910
R6911
R6930
R6931


U PRIMARY GUARD ASSY (AWX9172)
R ICE SHIELD ASSY (AWX9173)
N PRE BRIDGE ASSY (AWX9146)
H CN6504
CN5751
CN5752
XKP3073-A
XKP3062-A
NM
CN6830
GNDCH2
GNDCH1
51048-0400
JH6990
52147-0410
JH6800
VNE1948-A
KN6990
CN6820
XKP3068-A
GNDCH
V-12C
V+12C
GNDC
C-
C+
V-12L
V+12L
GNDL
L-
L+
V-12R
V+12R
GNDR
R-
R+
V-12SL
P CN3801
C6807
C6808
C6817
C6818
C6827
C6828
1000p CH
(C)
(FL)
(SL)
(SB)
CN6810
XKP3069-A
V+12SL
GNDSL
SL-
SL+
V-12SR
V+12SR
GNDSR
SR-
SR+
V-12SBL
V+12SBL
GNDSBL
SBL-
SBL+
V-12SBR
V+12SBR
GNDSBR
SBR-
SBR+
C6837
C6838
C6847
C6848
C6857
C6858
C6867
C6868
P CN3800
H CN6502
CN6951
52044-1945
AMUTE
SBMUTE
GNDA
FR OUT
FL OUT
SW OUT
C OUT
RS OUT
LS OUT
SBR OUT
SBL OUT
CN6952
XKP3070-A
A CN5006
GNDCH
(SW)
CN6953
AKP7227-A
O CN6800

(FL) : Audio Signal Route (Front L ch)

(SL) : Audio Signal Route (Surround L ch)

(C) : Audio Signal Route (Center)

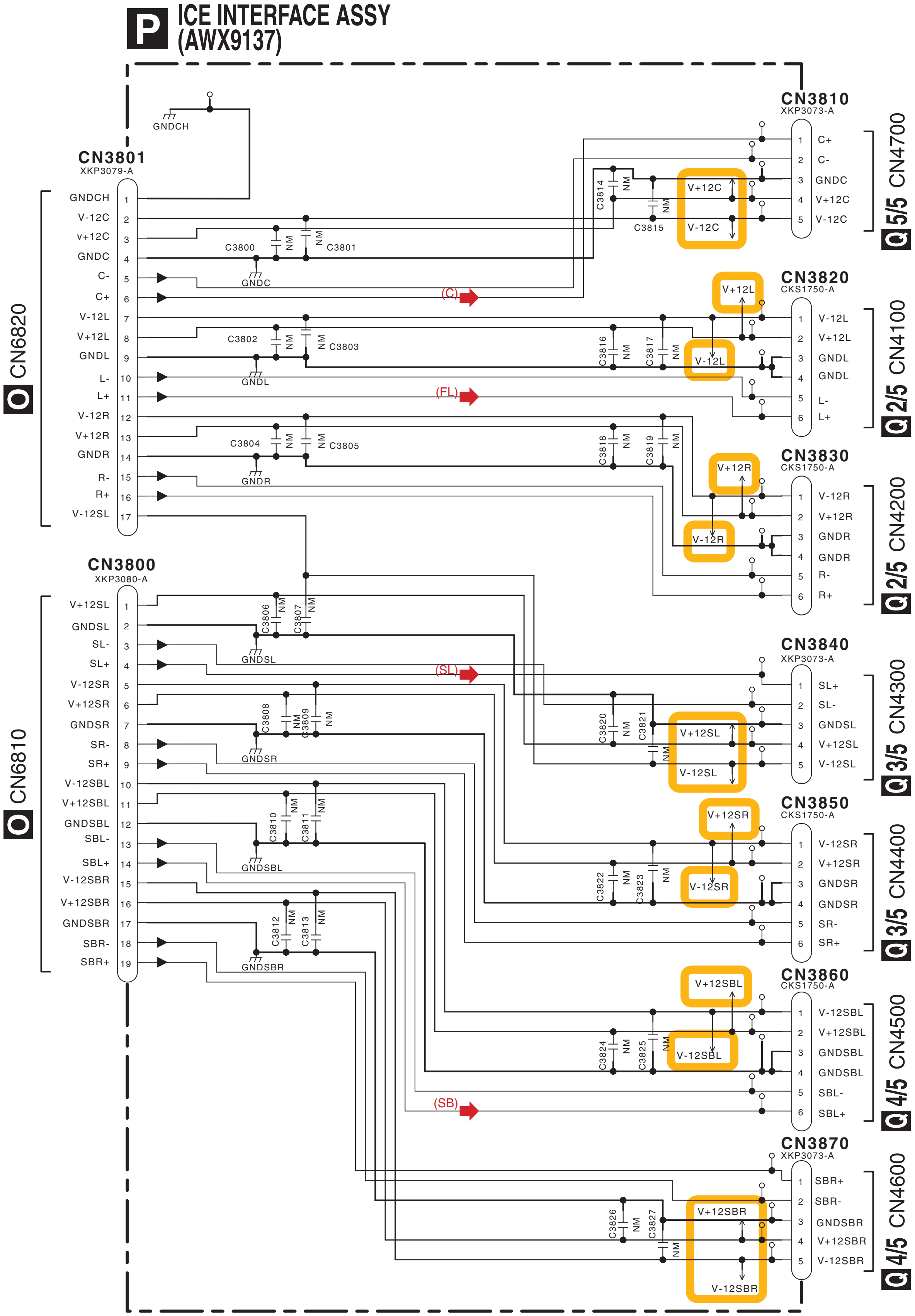
(SB) : Audio Signal Route (Surround Back L ch)

(SW) : Audio Signal Route (Subwoofer)

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB,CH:CCSRCH
3. NM: No Mount

1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ*** 1/8W	RS1/8S*** RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

10.20 ICE INTERFACE and ZOUT ASSYS

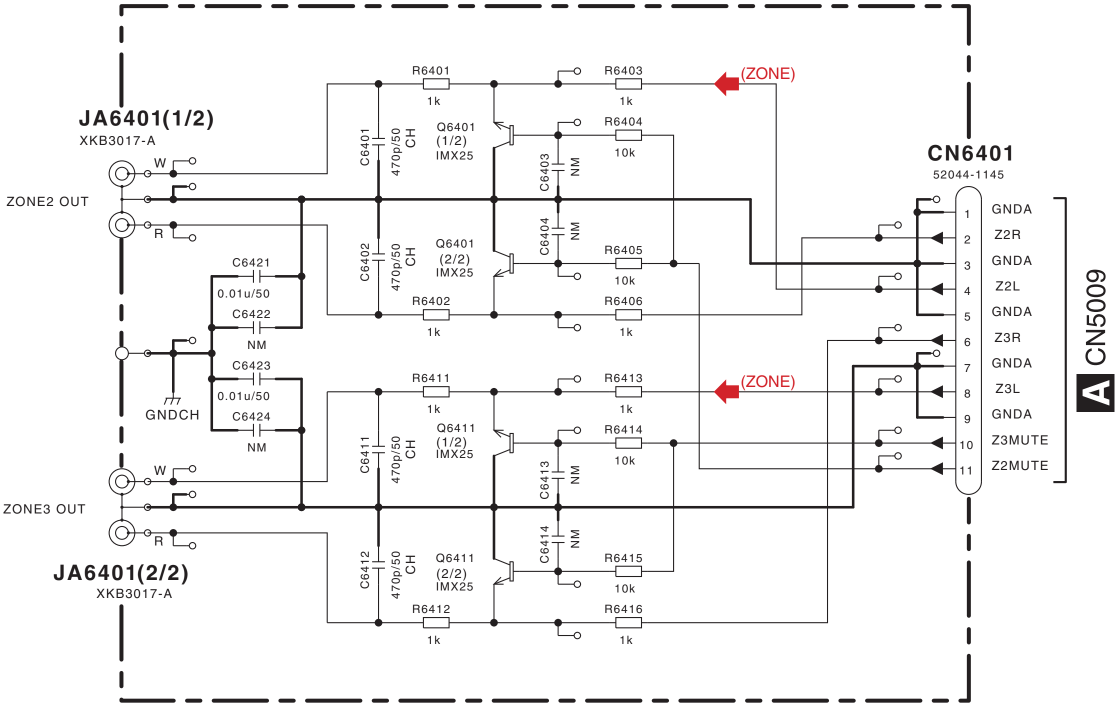

P
ICE INTERFACE ASSY
(AWX9137)
GNDCH
CN3801
XKP3079-A
1 GNDCH
2 V-12C
3 v+12C
4 GNDC
5 C-
6 C+
7 V-12L
8 V+12L
9 GNDL
10 L-
11 L+
12 V-12R
13 V+12R
14 GNDR
15 R-
16 R+
17 V-12SL
O CN6820
C3800
NM
NM
C3801
GNDC
C3802
NM
NM
C3803
GNDL
C3804
NM
NM
C3805
GNDR
(C)
(FL)
C3814
NM
NM
C3815
C3816
NM
C3817
NM
C3818
NM
C3819
NM
V+12C
V-12C
V+12L
V-12L
V+12R
V-12R
CN3810
XKP3073-A
1 C+
2 C-
3 GNDC
4 V+12C
5 V-12C
Q 5/5 CN4700
CN3820
CKS1750-A
1 V-12L
2 V+12L
3 GNDL
4 GNDL
5 L-
6 L+
Q 2/5 CN4100
CN3830
CKS1750-A
1 V-12R
2 V+12R
3 GNDR
4 GNDR
5 R-
6 R+
Q 2/5 CN4200
CN3800
XKP3080-A
1 V+12SL
2 GNDSL
3 SL-
4 SL+
5 V-12SR
6 V+12SR
7 GNDSR
8 SR-
9 SR+
10 V-12SBL
11 V+12SBL
12 GNDSBL
13 SBL-
14 SBL+
15 V-12SBR
16 V+12SBR
17 GNDSBR
18 SBR-
19 SBR+
O CN6810
C3806
NM
C3807
NM
GNDSL
(SL)
C3808
NM
C3809
NM
GNDSR
C3810
NM
C3811
NM
GNDSBL
C3812
NM
C3813
NM
GNDSBR
(SB)
C3820
NM
C3821
NM
V+12SL
V-12SL
CN3840
XKP3073-A
1 SL+
2 SL-
3 GNDSL
4 V+12SL
5 V-12SL
Q 3/5 CN4300
C3822
NM
C3823
NM
V+12SR
V-12SR
CN3850
CKS1750-A
1 V-12SR
2 V+12SR
3 GNDSR
4 GNDSR
5 SR-
6 SR+
Q 3/5 CN4400
C3824
NM
C3825
NM
V+12SBL
V-12SBL
CN3860
CKS1750-A
1 V-12SBL
2 V+12SBL
3 GNDSBL
4 GNDSBL
5 SBL-
6 SBL+
Q 4/5 CN4500
C3826
NM
C3827
NM
V+12SBR
V-12SBR
CN3870
XKP3073-A
1 SBR+
2 SBR-
3 GNDSBR
4 V+12SBR
5 V-12SBR
Q 4/5 CN4600
A
B
C
D
E
F

NOTE

1. RESISTORS
 Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
 Rated Power: 1/16w unless otherwise noted.
 Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
 Unit: p-pF or u-uF unless otherwise noted.
 Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
 YB:CKSRYB,CH:CCSRCH
3. NM: No Mount

1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ*** 1/8W	RS1/8S*** RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

S ZOUT ASSY (AWX9143)


JA6401(1/2)
XKB3017-A
ZONE2 OUT
W
R
JA6401(2/2)
XKB3017-A
ZONE3 OUT
GNDCH
C6421
0.01u/50
C6422
NM
C6423
0.01u/50
C6424
NM
R6401
1k
R6402
1k
R6403
1k
R6404
10k
R6405
10k
R6406
1k
R6411
1k
R6412
1k
R6413
1k
R6414
10k
R6415
10k
R6416
1k
C6401
C6402
C6403
C6404
C6411
C6412
C6413
C6414
470p/50
CH
NM
Q6401
(1/2)
IMX25
Q6401
(2/2)
IMX25
Q6411
(1/2)
IMX25
Q6411
(2/2)
IMX25
(ZONE)
(ZONE)
CN6401
52044-1145
1 GNDA
2 Z2R
3 GNDA
4 Z2L
5 GNDA
6 Z3R
7 GNDA
8 Z3L
9 GNDA
10 Z3MUTE
11 Z2MUTE
A CN5009

(FL) ➡ : Audio Signal Route (Front L ch)

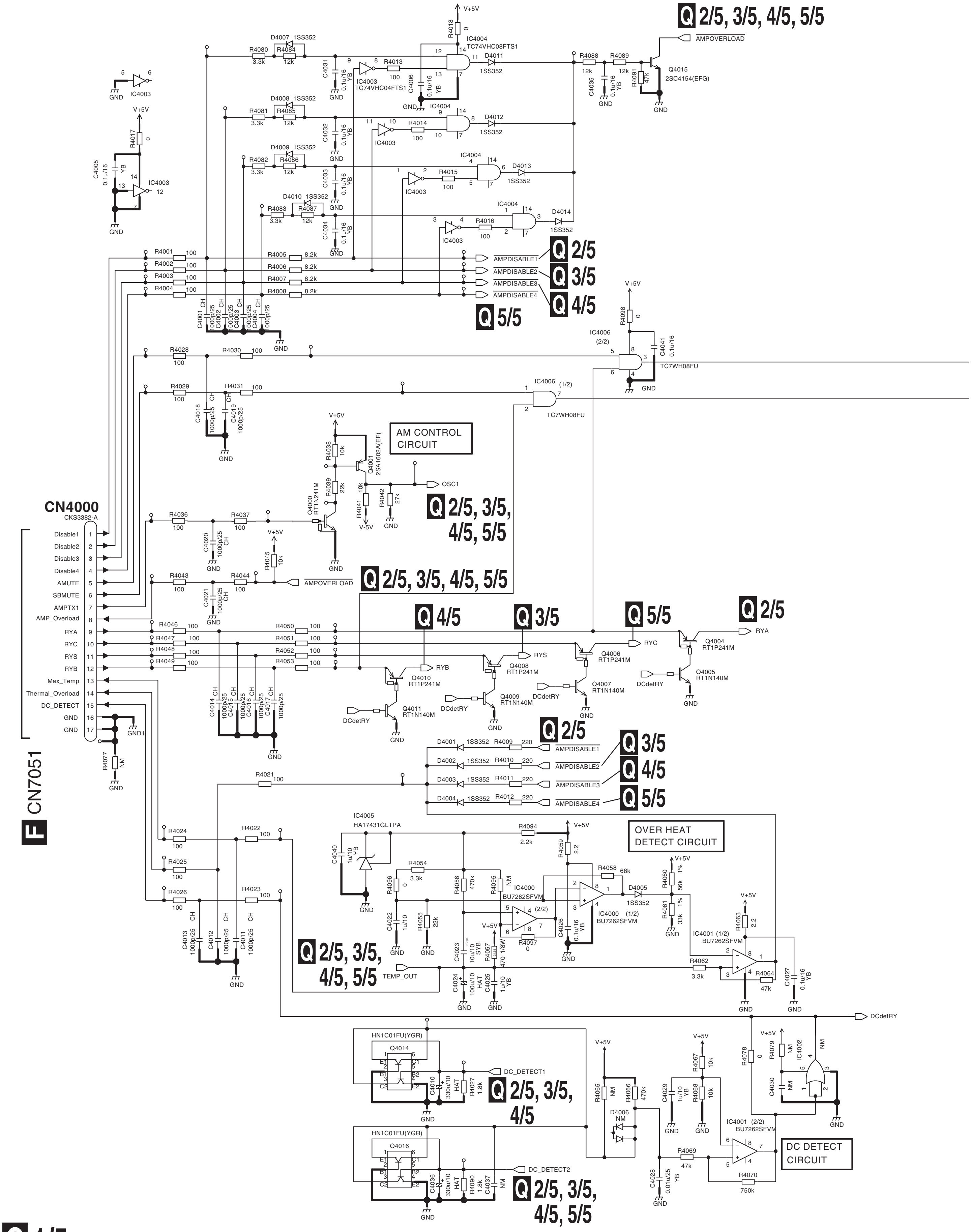
(SL) ➡ : Audio Signal Route (Surround L ch)

(C) ➡ : Audio Signal Route (Center)

(SB) ➡ : Audio Signal Route (Surround Back L ch)

(ZONE) ➡ : Audio Signal Route (Zone L ch)

10.21 ICEPOWER AMP ASSY (1/5)

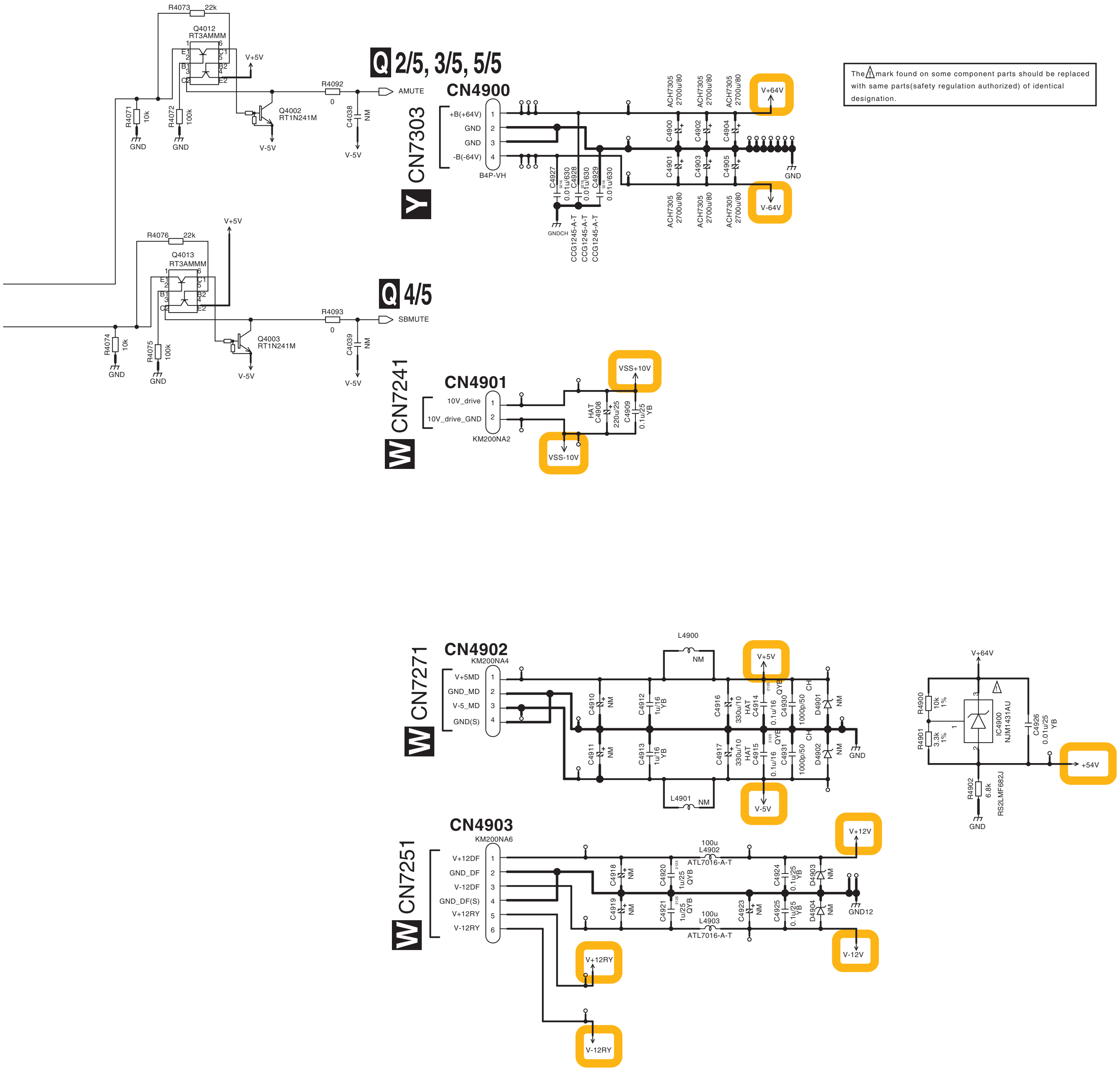


Q 2/5, 3/5, 4/5, 5/5
AMPOVERLOAD
V+5V
R4018 0
IC4004 TC74VHC08FTS1
D4007 1SS352
R4080 3.3k
R4084 12k
C4031 0.1u/16 YB
IC4003 TC74VHC04FTS1
R4013 100
C4006 0.1u/16 YB
D4011 1SS352
R4088 12k
R4089 12k
C4035 0.1u/16 YB
R4091 47k
Q4015 2SC4154(EFG)
IC4003
R4017 0
C4005 0.1u/16 YB
D4008 1SS352
R4081 3.3k
R4085 12k
C4032 0.1u/16 YB
R4014 100
D4012 1SS352
D4009 1SS352
R4082 3.3k
R4086 12k
C4033 0.1u/16 YB
R4015 100
D4013 1SS352
D4010 1SS352
R4083 3.3k
R4087 12k
C4034 0.1u/16 YB
R4016 100
D4014 1SS352
GND
R4001 100
R4002 100
R4003 100
R4004 100
R4005 8.2k
R4006 8.2k
R4007 8.2k
R4008 8.2k
AMPDISABLE1
AMPDISABLE2
AMPDISABLE3
AMPDISABLE4
Q 2/5
Q 3/5
Q 4/5
Q 5/5
C4001 1000p/25 CH
C4002 1000p/25 CH
C4003 1000p/25 CH
C4004 1000p/25 CH
R4098 0
IC4006 (2/2)
C4041 0.1u/16
TC7WH08FU
R4028 100
R4030 100
R4029 100
R4031 100
IC4006 (1/2)
C4018 1000p/25 CH
C4019 1000p/25 CH
AM CONTROL CIRCUIT
R4038 10k
Q4001 2SA1602A(EF)
R4039 22k
Q4000 RT1N241M
R4041 10k
R4042 27k
V-5V
OSC1
Q 2/5, 3/5, 4/5, 5/5
CN4000
CKS3382-A
Disable1 1
Disable2 2
Disable3 3
Disable4 4
AMUTE 5
SBMUTE 6
AMPTX1 7
AMP_Overload 8
RYA 9
RYC 10
RYS 11
RYB 12
Max_Temp 13
Thermal_Overload 14
DC_DETECT 15
GND 16
GND 17
GND1
R4036 100
R4037 100
C4020 1000p/25 CH
R4045 10k
R4043 100
R4044 100
C4021 1000p/25 CH
Q 2/5, 3/5, 4/5, 5/5
Q 4/5
Q 3/5
Q 5/5
Q 2/5
R4046 100
R4047 100
R4048 100
R4049 100
R4050 100
R4051 100
R4052 100
R4053 100
RYB
RYS
RYC
RYA
Q4010 RT1P241M
Q4011 RT1N140M
Q4008 RT1P241M
Q4009 RT1N140M
Q4006 RT1P241M
Q4007 RT1N140M
Q4004 RT1P241M
Q4005 RT1N140M
DCdetRY
C4014 1000p/25 CH
C4015 1000p/25 CH
C4016 1000p/25 CH
C4017 1000p/25 CH
D4001 1SS352 R4009 220
D4002 1SS352 R4010 220
D4003 1SS352 R4011 220
D4004 1SS352 R4012 220
R4077 NM
F CN7051
R4021 100
IC4005 HA17431GLTPA
R4094 2.2k
OVER HEAT DETECT CIRCUIT
R4024 100
R4022 100
R4025 100
R4026 100
R4023 100
C4040 1u/10 YB
R4054 3.3k
R4096 0
R4056 470k
R4095 NM
IC4000 BU7262SFVM
R4059 2.2
R4058 68k
D4005 1SS352
R4060 56k 1%
R4061 33k 1%
IC4000 (1/2) BU7262SFVM
IC4000 (2/2)
C4022 1u/10
R4055 22k
R4097 0
C4026 0.1u/16 YB
C4013 1000p/25 CH
C4012 1000p/25 CH
C4011 1000p/25 CH
Q 2/5, 3/5, 4/5, 5/5
TEMP_OUT
C4023 10u/10 SYB
R4057 470 1/8W
C4024 100u/10 HAT
C4025 1u/10 YB
IC4001 (1/2) BU7262SFVM
R4063 2.2
R4062 3.3k
R4064 47k
C4027 0.1u/16 YB
DCdetRY
HN1C01FU(YGR)
Q4014
C4010 330u/10 HAT
R4027 1.8k
DC_DETECT1
Q 2/5, 3/5, 4/5
R4065 NM
R4066 470k
D4006 NM
R4067 10k
R4068 10k
C4029 1u/10 YB
R4078 0
R4079 NM
IC4002 NM
C4030 NM
IC4001 (2/2) BU7262SFVM
R4069 47k
R4070 750k
C4028 0.01u/25 YB
DC DETECT CIRCUIT
Q4016
C4036 330u/10 HAT
R4090 1.8k
C4037 NM
DC_DETECT2
Q 2/5, 3/5, 4/5, 5/5

Q 1/5

Q 1/5 ICEPOWER AMP ASSY (AWH7015)

The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

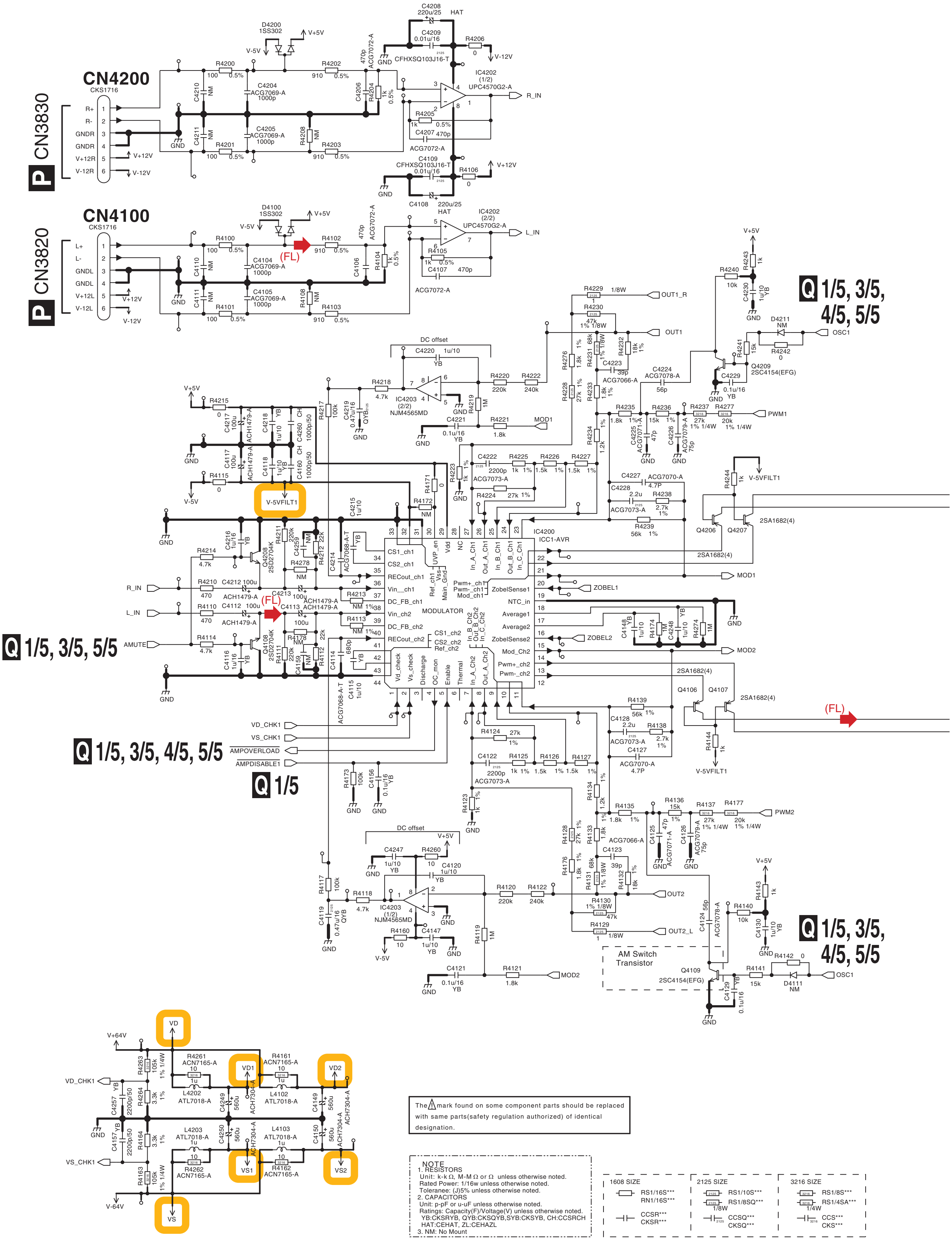


R4073 22k
Q4012 RT3AMMM
V+5V
R4092 0
AMUTE
R4071 10k
R4072 100k
GND
Q4002 RT1N241M
V-5V
C4038 NM
Q 2/5, 3/5, 5/5
CN4900
+B(+64V)
GND
GND
-B(-64V)
B4P-VH
Y CN7303
C4927 0.01u/630
C4928 0.01u/630
C4929 0.01u/630
GNDCH
CCG1245-A-T
C4900
C4902
C4904
C4901
C4903
C4905
ACH7305 2700u/80
V+64V
V-64V
GND
R4076 22k
Q4013 RT3AMMM
R4093 0
SBMUTE
R4074 10k
R4075 100k
Q4003 RT1N241M
C4039 NM
Q 4/5
CN4901
10V_drive
10V_drive_GND
KM200NA2
W CN7241
HAT C4908 220u/25
C4909 0.1u/25 YB
VSS+10V
VSS-10V
CN4902
KM200NA4
V+5MD
GND_MD
V-5_MD
GND(S)
W CN7271
L4900 NM
V+5V
C4910 NM
C4912 1u/16 YB
C4916 330u/10 HAT
C4914 0.1u/16 QYB
C4930 1000p/50 CH
D4901 NM
C4911 NM
C4913 1u/16 YB
C4917 330u/10 HAT
C4915 0.1u/16 QYB
C4931 1000p/50 CH
D4902 NM
GND
L4901 NM
V-5V
V+64V
R4900 10k 1%
R4901 3.3k 1%
IC4900 NJM1431AU
C4926 0.01u/25 YB
+54V
R4902 6.8k RS2LMF682J
GND
CN4903
KM200NA6
V+12DF
GND_DF
V-12DF
GND_DF(S)
V+12RY
V-12RY
W CN7251
C4918 NM
C4920 1u/25 QYB
100u L4902 ATL7016-A-T
C4924 0.1u/25 YB
D4903 NM
V+12V
C4919 NM
C4921 1u/25 QYB
100u L4903 ATL7016-A-T
C4923 NM
C4925 0.1u/25 YB
D4904 NM
GND12
V-12V
V+12RY
V-12RY

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB,SYB:CKSYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ*** 1/8W	RS1/8S*** RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

10.22 ICEPOWER AMP ASSY (2/5)


A
B
C
D
E
F
CN4200
CKS1716
P CN3830
R+
R-
GNDR
GNDR
V+12R
V-12R
V+12V
V-12V
D4200
1SS302
V+5V
V-5V
R4200
100 0.5%
R4202
910 0.5%
C4210
NM
C4204
ACG7069-A
1000p
C4211
NM
C4205
ACG7069-A
1000p
R4201
100 0.5%
R4203
910 0.5%
R4208
NM
C4206
R4204
1k 0.5%
470p
ACG7072-A
C4208
220u/25
HAT
C4209
0.01u/16
CFHXSQ103J16-T
R4206
0
V-12V
IC4202
(1/2)
UPC4570G2-A
R_IN
R4205
1k 0.5%
C4207 470p
ACG7072-A
C4109
CFHXSQ103J16-T
0.01u/16
R4106
0
V+12V
C4108
220u/25
HAT
GND
CN4100
CKS1716
P CN3820
L+
L-
GNDL
GNDL
V+12L
V-12L
D4100
1SS302
R4100
100 0.5%
R4102
910 0.5%
(FL)
C4110
NM
C4104
ACG7069-A
1000p
C4106
R4104
1k 0.5%
C4111
NM
C4105
ACG7069-A
1000p
R4108
NM
R4101
100 0.5%
R4103
910 0.5%
IC4202
(2/2)
UPC4570G2-A
L_IN
R4105
1k 0.5%
C4107 470p
ACG7072-A
Q 1/5, 3/5, 4/5, 5/5
V+5V
R4243
1k
R4240
10k
C4230
1u/10
YB
D4211
NM
OSC1
R4241
15k
R4242
0
Q4209
2SC4154(EFG)
C4229
0.1u/16
YB
R4229 1/8W
OUT1_R
R4230
47k
1% 1/8W
OUT1
R4276
1.8k
R4231 68k 1/8W
R4232
18k 1%
C4223
39p
ACG7066-A
C4224
ACG7078-A
56p
R4228
27k 1%
R4233
1.8k 1%
R4235
1.8k 1%
R4236
15k 1%
R4237
27k 1% 1/4W
R4277
20k 1% 1/4W
PWM1
C4225
ACG7071-A
47p
C4226
ACG7079-A
75p
DC offset
C4220 1u/10
YB
R4218
4.7k
IC4203
(2/2)
NJM4565MD
R4220
220k
R4222
240k
R4219
1M
R4221
1.8k
MOD1
C4221
0.1u/16
YB
R4234
1.2k
C4222
2200p
R4225
1k 1%
R4226
1.5k 1%
R4227
1.5k 1%
ACG7073-A
R4224
27k 1%
C4227
ACG7070-A
4.7P
C4228
2.2u
ACG7073-A
R4238
2.7k 1%
R4239
56k 1%
R4244
1k
V-5VFILT1
Q4206
Q4207
2SA1682(4)
R4217
100k
C4219
0.47u/16
QYB
V+5V
R4215
0
C4217
100u
ACH1479-A
C4218
1u/10
YB
C4260
CH
1000p/50
C4117
100u
ACH1479-A
C4118
1u/10
YB
C4160
CH
1000p/50
R4115
0
V-5V
V-5VFILT1
R4171
0
R4172
NM
R4223
1k 1%
C4215
1u/10
R4214
4.7k
C4216
1u/16
YB
Q4208
2SD2704K
R4211
220k
C4259
NM
R4212
22k
R4278
NM
C4214
ACG7068-A-T
YB
R_IN
R4210
470
C4212 100u
ACH1479-A
C4213 100u
ACH1479-A
R4213
NM 1%
L_IN
R4110
470
C4112 100u
ACH1479-A
C4113 ACH1479-A
100u
R4113
NM 1%
Q 1/5, 3/5, 5/5
AMUTE
R4114
4.7k
C4116
1u/16
YB
Q4108
2SD2704K
R4111
220k
R4178
NM
C4159
NM
R4112
22k
C4114
680p
YB
C4115
1u/10
ACG7068-A-T
IC4200
ICC1-AVR
CS1_ch1
CS2_ch1
RECout_ch1
Vin__ch1
DC_FB_ch1
Vin_ch2
DC_FB_ch2
RECout_ch2
CS1_ch2
CS2_ch2
Ref_ch2
MODULATOR
UVP_en
Vdd
NC
In_A_Ch1
Out_A_Ch1
In_B_Ch1
Out_B_Ch1
In_C_Ch1
Ref_ch1
Vss
Main_Gnd
Pwm+_ch1
Pwm-_ch1
Mod_ch1
ZobelSense1
NTC_in
Average1
Average2
ZobelSense2
Mod_Ch2
Pwm+_ch2
Pwm-_ch2
In_B_Ch2
Out_B_Ch2
In_C_Ch2
Vd_check
Vs_check
Discharge
OC_mon
Enable
Thermal
In_A_Ch2
Out_A_Ch2
2SA1682(4)
MOD1
ZOBEL1
C4148
1u/10
YB
R4174
1M
C4248
1u/10
YB
R4274
1M
ZOBEL2
MOD2
2SA1682(4)
Q4106
Q4107
2SA1682(4)
(FL)
VD_CHK1
VS_CHK1
Q 1/5, 3/5, 4/5, 5/5
AMPOVERLOAD
AMPDISABLE1
Q 1/5
R4173
100k
C4156
0.1u/16
YB
R4124
27k 1%
C4122
2200p
ACG7073-A
R4125
1k 1%
R4126
1.5k 1%
R4127
1.5k 1%
R4123
1k 1%
R4139
56k 1%
C4128
2.2u
ACG7073-A
R4138
2.7k 1%
C4127
ACG7070-A
4.7P
R4144
1k
V-5VFILT1
R4134
1.2k
R4135
1.8k 1%
R4136
15k 1%
R4137
27k 1% 1/4W
R4177
20k 1% 1/4W
PWM2
C4125
ACG7071-A
47p
C4126
ACG7079-A
75p
R4128
27k 1%
R4133
1.8k 1%
ACG7066-A
C4123
39p
DC offset
V+5V
C4247
1u/10
YB
R4260
10
C4120
1u/10
YB
R4117
100k
C4119
0.47u/16
QYB
R4118
4.7k
IC4203
(1/2)
NJM4565MD
R4160
10
C4147
1u/10
YB
V-5V
R4120
220k
R4122
240k
R4119
1M
R4176
1.8k
R4131 68k 1/8W
R4132
18k 1%
R4130
1% 1/8W
47k
OUT2
R4129
1/8W
OUT2_L
C4124
ACG7078-A
56p
V+5V
R4143
1k
R4140
10k
C4130
1u/10
YB
Q 1/5, 3/5, 4/5, 5/5
AM Switch
Transistor
Q4109
2SC4154(EFG)
R4141
15k
R4142 0
D4111
NM
OSC1
C4129
0.1u/16
YB
C4121
0.1u/16
YB
R4121
1.8k
MOD2
VD
V+64V
R4263
105k
1% 1/4W
R4261
ACN7165-A
10
L4202
1u
ATL7018-A
VD1
R4161
ACN7165-A
10
L4102
1u
ATL7018-A
VD2
VD_CHK1
C4257
2200p/50
YB
R4264
3.3k
1%
C4249
560u
ACH7304-A
C4149
560u
ACH7304-A
C4157
2200p/50
YB
R4164
3.3k
1%
L4203
ATL7018-A
1u
L4103
ATL7018-A
1u
C4250
560u
ACH7304-A
C4150
560u
ACH7304-A
VS_CHK1
R4163
105k
1% 1/4W
R4262
10
ACN7165-A
VS1
R4162
10
ACN7165-A
VS2
V-64V
VS

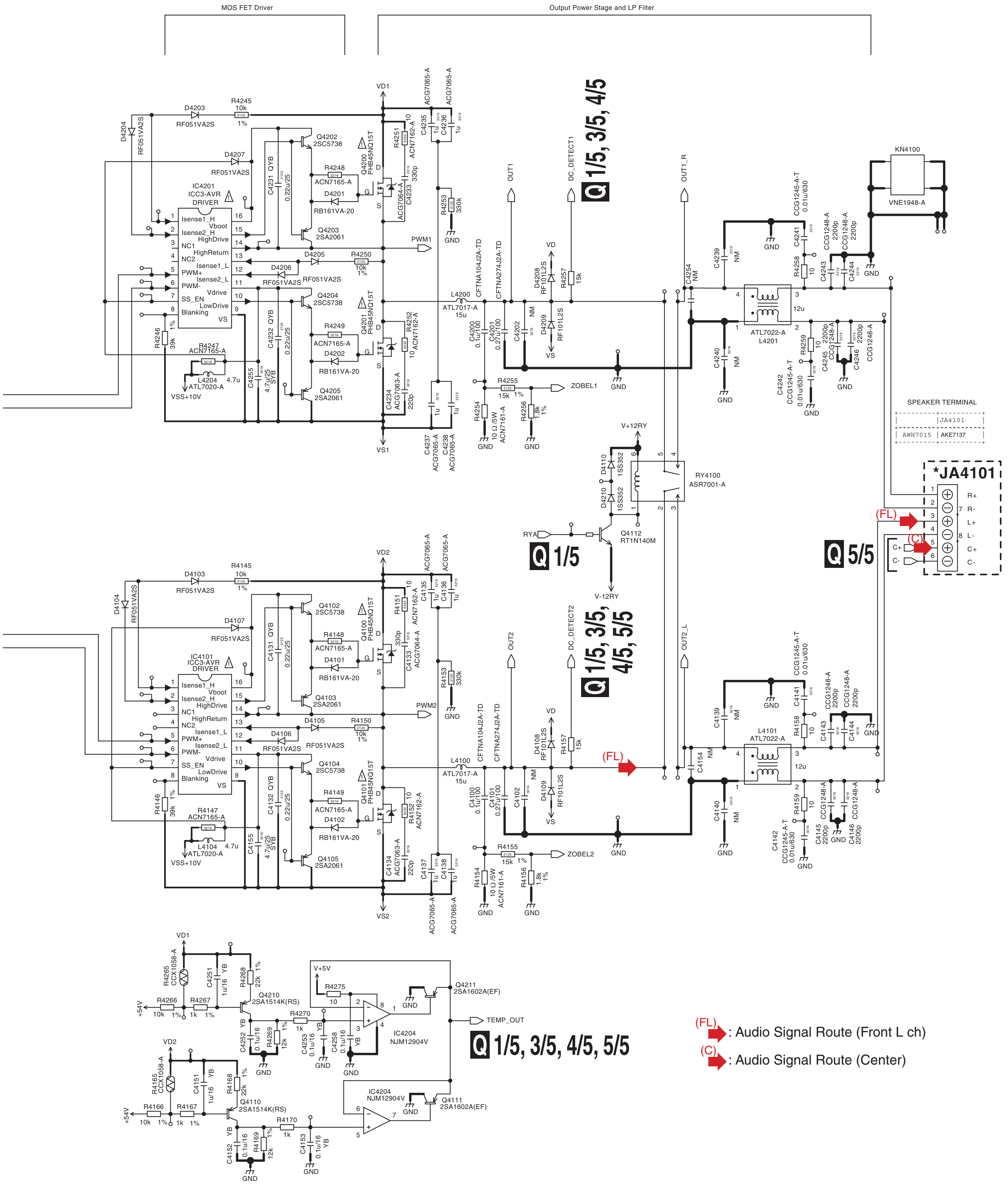
The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

NOTE
1. RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB,SYB:CKSYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ*** 1/8W	RS1/8S*** RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

Q 2/5

Q 2/5 ICEPOWER AMP ASSY (AWH7015)

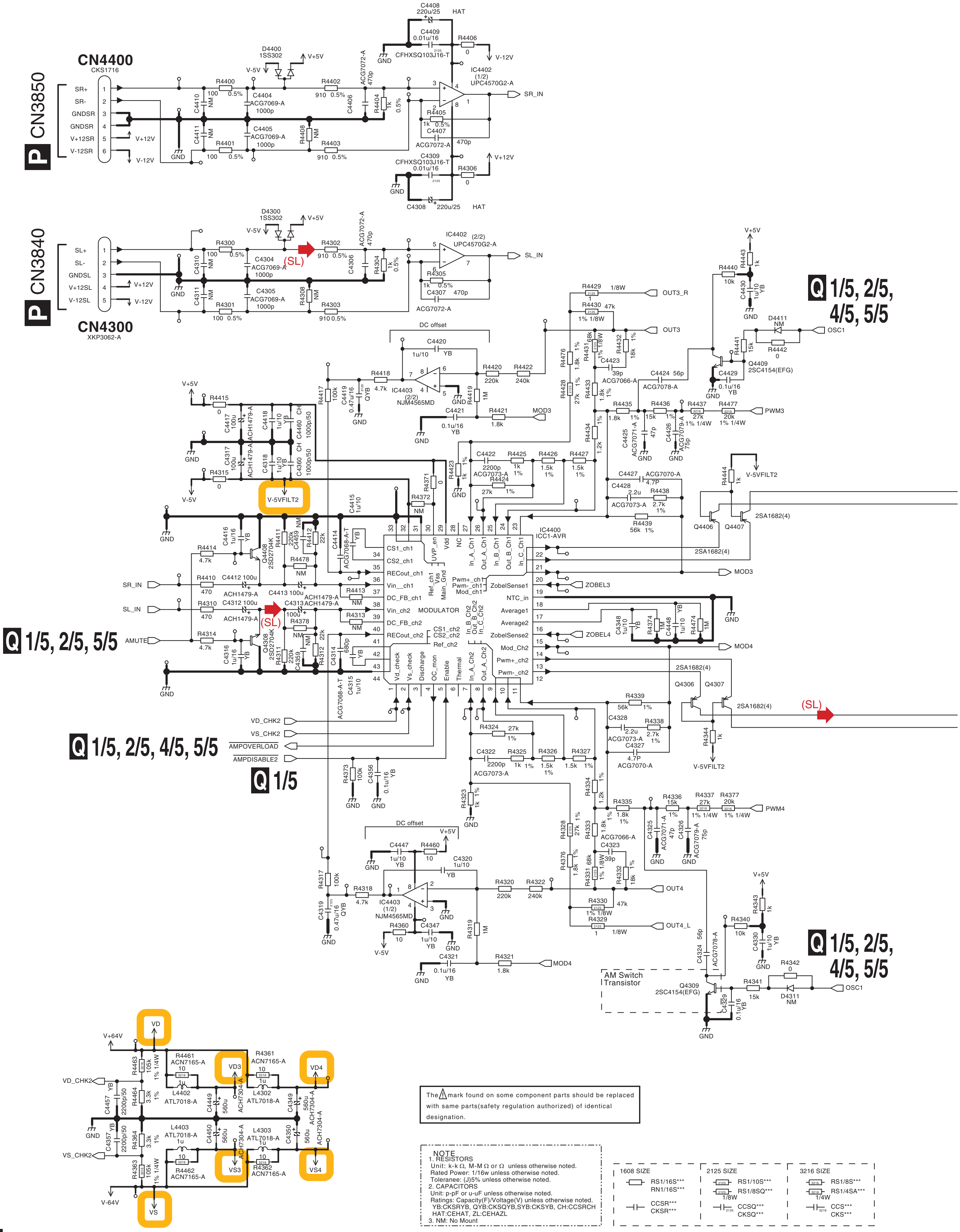


MOS FET Driver
Output Power Stage and LP Filter
VD1
D4203 RF051VA2S
R4245 10k 1%
D4204 RF051VA2S
D4207 RF051VA2S
Q4202 2SC5738
Q4200 PHB45NQ15T
R4251 10
ACN7162-A
C4235 1u
C4236 1u
ACG7065-A
ACG7065-A
R4248 ACN7165-A
D4201 RB161VA-20
C4231 QYB 0.22u/25
IC4201 ICC3-AVR DRIVER
Isense1_H
Vboot
Isense2_H
HighDrive
NC1
HighReturn
NC2
Isense1_L
PWM+
Isense2_L
PWM-
Vdrive
SS_EN
LowDrive
Blanking
VS
Q4203 2SA2061
C4233 330p ACG7064-A
R4253 330k
GND
PWM1
D4205
R4250 10k 1%
D4206 RF051VA2S
RF051VA2S
Q4204 2SC5738
Q4201 PHB45NQ15T
R4252 10 ACN7162-A
R4249 ACN7165-A
D4202 RB161VA-20
C4232 QYB 0.22u/25
R4246 39k 1%
R4247 ACN7165-A
L4204 ATL7020-A 4.7u
VSS+10V
C4255 4.7u/25 SYB
Q4205 2SA2061
C4234 ACG7063-A 220p
C4237 1u ACG7065-A
C4238 1u ACG7065-A
VS1
L4200 ATL7017-A 15u
CFTNA104J2A-TD
CFTNA274J2A-TD
C4200 0.1u/100
C4201 0.27u/100
C4202 NM
OUT1
DC_DETECT1
OUT1_R
VD
D4208 RF101L2S
D4209 RF101L2S
R4257 15k
VS
R4255 15k 1%
ZOBEL1
R4254 10Ω/5W ACN7161-A
R4256 1.8k 1%
GND
Q 1/5, 3/5, 4/5
KN4100
VNE1948-A
CCG1245-A-T 0.01u/630
C4241
CCG1248-A 2200p
CCG1248-A 2200p
C4239 NM
C4254 NM
R4258 10
C4243
C4244
L4201 ATL7022-A 12u
C4240 NM
C4242 CCG1245-A-T 0.01u/630
R4259 10
C4245 2200p CCG1248-A
C4246 2200p CCG1248-A
SPEAKER TERMINAL
JA4101
AWH7015 AKE7137
*JA4101
R+
R-
L+
L-
C+
C-
C+
C-
(FL)
(C)
Q 5/5
V+12RY
D4110 1SS352
D4210 1SS352
RY4100 ASR7001-A
RYA
Q4112 RT1N140M
V-12RY
Q 1/5
VD2
D4103 RF051VA2S
R4145 10k 1%
D4104 RF051VA2S
D4107 RF051VA2S
Q4102 2SC5738
Q4100 PHB45NQ15T
R4151 10 ACN7162-A
C4135 1u
C4136 1u
ACG7065-A
ACG7065-A
R4148 ACN7165-A
D4101 RB161VA-20
C4131 QYB 0.22u/25
IC4101 ICC3-AVR DRIVER
Q4103 2SA2061
C4133 330p ACG7064-A
R4153 330k
PWM2
D4105
R4150 10k 1%
D4106 RF051VA2S
RF051VA2S
Q4104 2SC5738
Q4101 PHB45NQ15T
R4152 10 ACN7162-A
R4149 ACN7165-A
D4102 RB161VA-20
C4132 QYB 0.22u/25
R4146 39k 1%
R4147 ACN7165-A
L4104 ATL7020-A 4.7u
VSS+10V
C4155 4.7u/25 SYB
Q4105 2SA2061
C4134 ACG7063-A 220p
C4137 1u ACG7065-A
C4138 1u ACG7065-A
VS2
L4100 ATL7017-A 15u
CFTNA104J2A-TD
CFTNA274J2A-TD
C4100 0.1u/100
C4101 0.27u/100
C4102 NM
OUT2
DC_DETECT2
OUT2_L
D4108 RF101L2S
D4109 RF101L2S
R4157 15k
(FL)
R4155 15k 1%
ZOBEL2
R4154 10Ω/5W ACN7161-A
R4156 1.8k 1%
Q 1/5, 3/5, 4/5, 5/5
CCG1245-A-T 0.01u/630
C4141
CCG1248-A 2200p
CCG1248-A 2200p
C4139 NM
C4154 NM
R4158 10
C4143
C4144
L4101 ATL7022-A 12u
C4140 NM
C4142 CCG1245-A-T 0.01u/630
R4159 10
C4145 2200p CCG1248-A
C4146 2200p CCG1248-A
VD1
R4265 CCX1058-A
C4251 1u/16 YB
R4268 22k 1%
+54V
R4266 10k 1%
R4267 1k 1%
Q4210 2SA1514K(RS)
C4252 YB 0.1u/16
R4269 12k 1%
R4270 1k
C4253 0.1u/16 YB
C4258 0.1u/16 YB
V+5V
R4275 10
IC4204 NJM12904V
Q4211 2SA1602A(EF)
TEMP_OUT
VD2
R4165 CCX1058-A
C4151 1u/16 YB
R4168 22k 1%
R4166 10k 1%
R4167 1k 1%
Q4110 2SA1514K(RS)
C4152 YB 0.1u/16
R4169 12k 1%
R4170 1k
C4153 0.1u/16 YB
IC4204 NJM12904V
Q4111 2SA1602A(EF)
GND
Q 1/5, 3/5, 4/5, 5/5

(FL) : Audio Signal Route (Front L ch)

(C) : Audio Signal Route (Center)

10.23 ICEPOWER AMP ASSY (3/5)

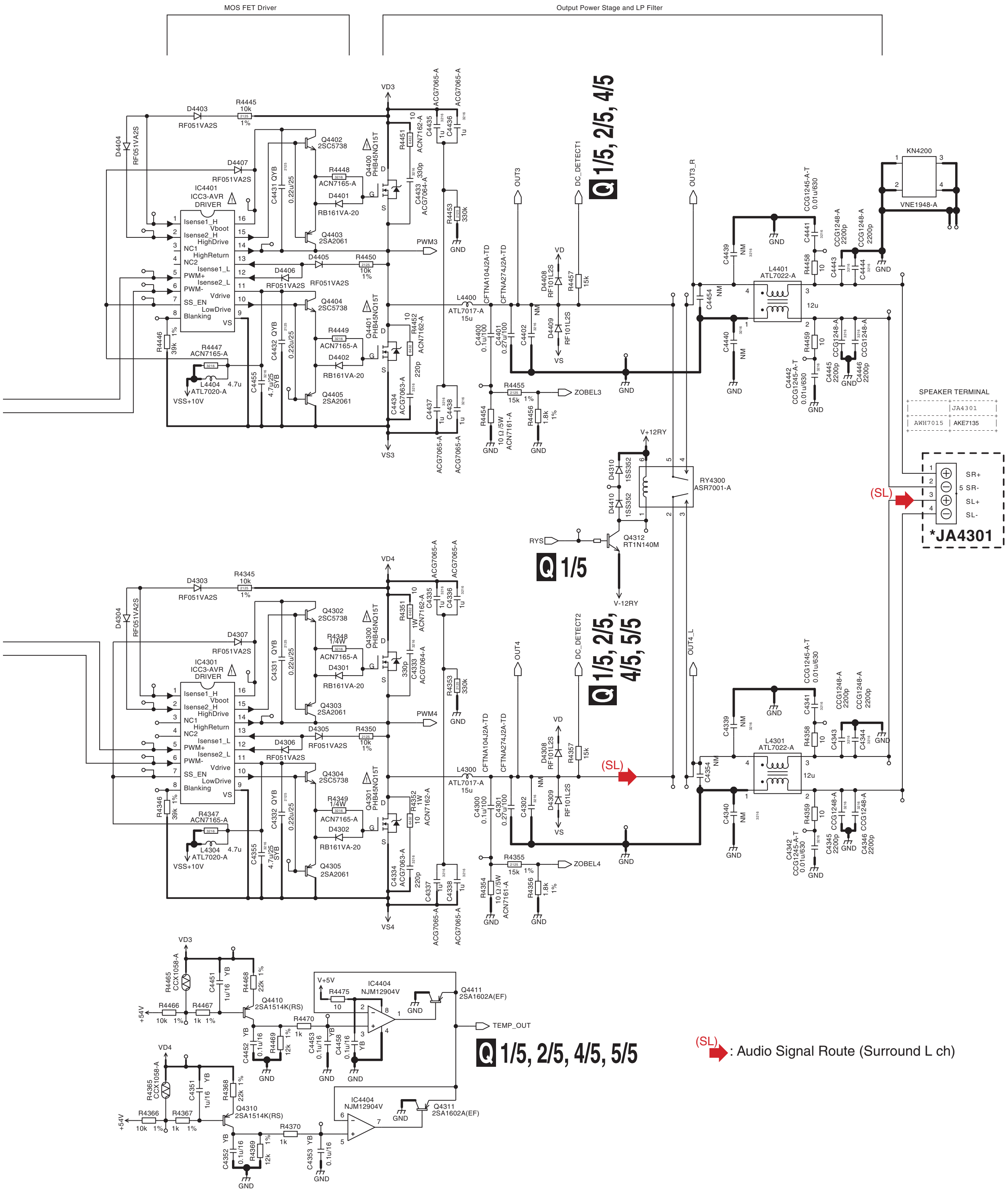

A
B
C
D
E
F
P CN3850
CN4400
CKS1716
SR+
SR-
GNDSR
GNDSR
V+12SR
V-12SR
V+12V
V-12V
GND
D4400
1SS302
V-5V
V+5V
R4400 100 0.5%
C4404 ACG7069-A 1000p
C4405 ACG7069-A 1000p
R4401 100 0.5%
C4410 NM
C4411 NM
R4402 910 0.5%
R4403 910 0.5%
R4408 NM
C4406 ACG7072-A 470p
R4404 1k 0.5%
C4408 220u/25 HAT
C4409 0.01u/16
CFHXSQ103J16-T
R4406 0
IC4402 (1/2) UPC4570G2-A
R4405 1k 0.5%
C4407 470p ACG7072-A
SR_IN
C4309 CFHXSQ103J16-T 0.01u/16
R4306 0
C4308 220u/25 HAT
P CN3840
CN4300
XKP3062-A
SL+
SL-
GNDSL
V+12SL
V-12SL
D4300 1SS302
R4300 100 0.5%
C4304 ACG7069-A 1000p
(SL)
R4302 910 0.5%
C4306 ACG7072-A 470p
R4304 1k 0.5%
C4305 ACG7069-A 1000p
R4301 100 0.5%
R4303 910 0.5%
R4308 NM
C4310 NM
C4311 NM
IC4402 (2/2) UPC4570G2-A
R4305 1k 0.5%
C4307 470p ACG7072-A
SL_IN
DC offset
C4420 1u/10 YB
R4418 4.7k
R4417 100k
C4419 0.47u/16 QYB
IC4403 (2/2) NJM4565MD
R4419 1M
R4420 220k
R4422 240k
C4421 0.1u/16 YB
R4421 1.8k
MOD3
R4415 0
C4417 100u ACH1479-A
C4418 1u/10 YB
C4460 CH 1000p/50
C4317 100u ACH1479-A
C4318 1u/10 YB
C4360 CH 1000p/50
R4315 0
V-5VFILT2
R4414 4.7k
C4416 1u/16 YB
Q4408 2SD2704K
R4411 220k
C4459 NM
R4412 22k
C4414 ACG7068-A-T
R4478 NM
SR_IN
SL_IN
AMUTE
R4410 470
C4412 100u ACH1479-A
C4413 100u ACH1479-A
R4310 470
C4312 100u ACH1479-A
C4313 100u ACH1479-A
R4378 NM
R4314 4.7k
C4316 1u/16 YB
Q4308 2SD2704K
R4311 220k
C4359 NM
R4312 22k
C4314 680p
C4315 1u/10 ACG7068-A-T
R4413 NM
R4313 NM
R4371 0
R4372 NM
C4415 1u/10
IC4400 ICC1-AVR
CS1_ch1
CS2_ch1
RECout_ch1
Vin_ch1
DC_FB_ch1
Vin_ch2
DC_FB_ch2
RECout_ch2
MODULATOR
CS1_ch2
CS2_ch2
Ref_ch2
Ref_ch1
Vss
Main_Gnd
Pwm+_ch1
Pwm-_ch1
Mod_ch1
ZobelSense1
NTC_in
Average1
Average2
ZobelSense2
Mod_Ch2
Pwm+_ch2
Pwm-_ch2
UVP_en
Vdd
NC
In_A_Ch1
Out_A_Ch1
In_B_Ch1
Out_B_Ch1
In_C_Ch1
In_B_Ch2
Out_B_Ch2
In_C_Ch2
Vd_check
Vs_check
Discharge
OC_mon
Enable
Thermal
In_A_Ch2
Out_A_Ch2
VD_CHK2
VS_CHK2
AMPOVERLOAD
AMPDISABLE2
R4373 100k
C4356 0.1u/16 YB
R4423 1k 1%
C4422 2200p ACG7073-A
R4425 1k 1%
R4424 27k 1%
R4426 1.5k 1%
R4427 1.5k 1%
R4429 1/8W
OUT3_R
R4430 47k 1% 1/8W
OUT3
R4476 1.8k 1%
R4431 68k 1% 1/8W
C4423 39p
R4432 18k 1%
R4428 27k 1%
R4433 1.8k 1%
ACG7066-A
C4424 56p ACG7078-A
R4434 1.2k 1%
R4435 1.8k 1%
R4436 15k 1%
R4437 27k 1% 1/4W
R4477 20k 1% 1/4W
PWM3
C4425 47p ACG7071-A
C4426 75p ACG7079-A
C4427 ACG7070-A 4.7P
C4428 2.2u ACG7073-A
R4438 2.7k 1%
R4439 56k 1%
R4440 10k
R4443 1k
C4430 1u/10 YB
D4411 NM
R4442 0
R4441 15k
OSC1
Q4409 2SC4154(EFG)
C4429 0.1u/16 YB
R4444 1k
V-5VFILT2
Q4406
Q4407
2SA1682(4)
MOD3
ZOBEL3
C4348 1u/10 YB
R4374 1M
C4448 1u/10 YB
R4474 1M
ZOBEL4
MOD4
Q4306
Q4307
R4339 56k 1%
C4328 2.2u ACG7073-A
R4338 2.7k 1%
C4327 4.7P ACG7070-A
R4344 1k
R4324 27k 1%
C4322 2200p ACG7073-A
R4325 1k 1%
R4326 1.5k 1%
R4327 1.5k 1%
R4323 1k 1%
R4334 1.2k 1%
R4335 1.8k 1%
R4336 15k 1%
R4337 27k 1% 1/4W
R4377 20k 1% 1/4W
PWM4
C4325 47p ACG7071-A
C4326 75p ACG7079-A
R4328 27k 1%
R4333 1.8k 1%
ACG7066-A
C4323 39p
R4376 1.8k 1%
R4331 68k 1% 1/8W
R4332 18k 1%
DC offset
C4447 1u/10 YB
R4460 10
C4320 1u/10 YB
R4317 100k
R4318 4.7k
C4319 0.47u/16 QYB
IC4403 (1/2) NJM4565MD
R4360 10
C4347 1u/10 YB
R4320 220k
R4322 240k
OUT4
R4330 47k 1% 1/8W
R4329 1 1/8W
OUT4_L
R4319 1M
C4321 0.1u/16 YB
R4321 1.8k
MOD4
AM Switch Transistor
Q4309 2SC4154(EFG)
C4324 56p ACG7078-A
R4340 10k
R4343 1k
C4330 1u/10 YB
R4342 0
R4341 15k
D4311 NM
C4329 0.1u/16 YB
V+64V
VD
R4463 105k 1% 1/4W
R4461 ACN7165-A 10
L4402 1u ATL7018-A
VD3
R4361 ACN7165-A 10
L4302 1u ATL7018-A
VD4
R4464 3.3k 1%
C4457 2200p/50 YB
C4449 560u ACH7304-A
C4349 560u ACH7304-A
R4364 3.3k 1%
C4357 2200p/50 YB
L4403 ATL7018-A 1u
L4303 ATL7018-A 1u
C4450 560u ACH7304-A
C4350 560u ACH7304-A
R4462 ACN7165-A 10
VS3
R4362 ACN7165-A 10
VS4
R4363 105k 1% 1/4W
V-64V
VS
Q 1/5, 2/5, 4/5, 5/5
Q 1/5, 2/5, 5/5
Q 1/5, 2/5, 4/5, 5/5
Q 1/5
Q 1/5, 2/5, 4/5, 5/5
Q 3/5

The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

NOTE
1. RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB,SYB:CKSYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

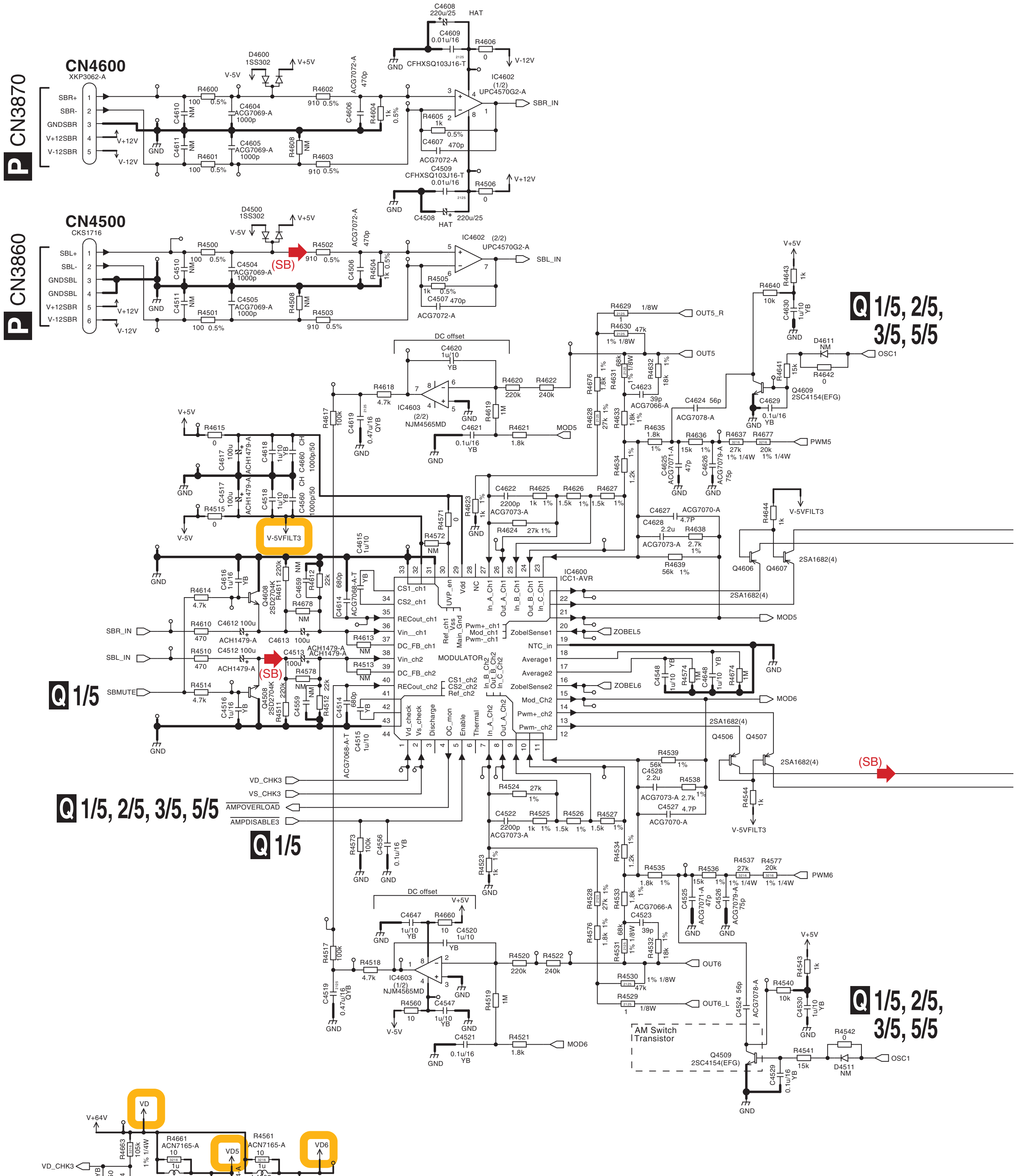
1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ*** 1/8W	RS1/8S*** RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

Q 3/5 ICEPOWER AMP ASSY (AWH7015)


MOS FET Driver
Output Power Stage and LP Filter
Q 1/5, 2/5, 4/5
Q 1/5
Q 1/5, 2/5, 4/5, 5/5
Q 1/5, 2/5, 4/5, 5/5
IC4401
ICC3-AVR
DRIVER
IC4301
ICC3-AVR
DRIVER
Isense1_H
Vboot
Isense2_H
HighDrive
NC1
HighReturn
NC2
Isense1_L
PWM+
Isense2_L
PWM-
Vdrive
SS_EN
LowDrive
Blanking
VS
VD3
VS3
VD4
VS4
D4403
RF051VA2S
R4445
10k
1%
D4404
D4407
Q4402
2SC5738
Q4403
2SA2061
Q4404
2SC5738
Q4405
2SA2061
Q4400
PHB45NQ15T
Q4401
PHB45NQ15T
R4448
ACN7165-A
D4401
RB161VA-20
D4402
R4449
D4405
D4406
R4450
10k
R4451
ACN7162-A
R4452
C4431 QYB 0.22u/25
C4432 QYB 0.22u/25
C4433 ACG7064-A 330p
C4434 ACG7063-A 220p
C4435 1u
C4436 1u
C4437 1u
C4438 1u
ACG7065-A
R4453 330k
GND
PWM3
PWM4
R4446 39k 1%
R4447 ACN7165-A
L4404 4.7u ATL7020-A
C4455 4.7u/25 SYB
VSS+10V
L4400 ATL7017-A 15u
CFTNA104J2A-TD
CFTNA274J2A-TD
C4400 0.1u/100
C4401 0.27u/100
C4402 NM
D4408 RF101L2S
D4409 RF101L2S
VD
VS
R4457 15k
OUT3
DC_DETECT1
OUT3_R
R4455 15k 1%
ZOBEL3
R4454 10 Ω/5W ACN7161-A
R4456 1.8k 1%
C4439 NM
C4440 NM
C4454 NM
L4401 ATL7022-A
12u
R4458 10
R4459 10
C4441 CCG1245-A-T 0.01u/630
C4442 CCG1245-A-T 0.01u/630
C4443 CCG1248-A 2200p
C4444 CCG1248-A 2200p
C4445 2200p
C4446 2200p
KN4200
VNE1948-A
V+12RY
V-12RY
D4310 1SS352
D4410 1SS352
RY4300
ASR7001-A
RYS
Q4312
RT1N140M
SPEAKER TERMINAL
JA4301
AWH7015
AKE7135
SR+
SR-
SL+
SL-
*JA4301
(SL)
D4303
R4345
D4304
D4307
Q4302 2SC5738
Q4303 2SA2061
Q4304 2SC5738
Q4305 2SA2061
Q4300 PHB45NQ15T
Q4301 PHB45NQ15T
R4348 1/4W ACN7165-A
R4349 1/4W ACN7165-A
D4301
D4302
D4305
D4306
R4350 10k
R4351 1W ACN7162-A
R4352 1W ACN7162-A
C4331 QYB 0.22u/25
C4332 QYB 0.22u/25
C4333 ACG7064-A 330p
C4334 ACG7063-A 220p
C4335 1u
C4336 1u
C4337 1u
C4338 1u
R4353 330k
R4346 39k 1%
R4347 ACN7165-A
L4304 4.7u ATL7020-A
C4355 4.7u/25 SYB
L4300 ATL7017-A 15u
C4300 0.1u/100
C4301 0.27u/100
C4302 NM
D4308 RF101L2S
D4309 RF101L2S
R4357 15k
OUT4
DC_DETECT2
OUT4_L
R4355 15k 1%
ZOBEL4
R4354 10 Ω/5W ACN7161-A
R4356 1.8k 1%
C4339 NM
C4340 NM
C4354 NM
L4301 ATL7022-A
R4358 10
R4359 10
C4341 CCG1245-A-T 0.01u/630
C4342 CCG1245-A-T 0.01u/630
C4343 CCG1248-A 2200p
C4344 CCG1248-A 2200p
C4345 2200p
C4346 2200p
R4465 CCX1058-A
C4451 1u/16 YB
R4468 22k 1%
+54V
R4466 10k 1%
R4467 1k 1%
Q4410 2SA1514K(RS)
C4452 0.1u/16 YB
R4469 12k 1%
R4470 1k
C4453 0.1u/16 YB
C4458 0.1u/16 YB
V+5V
IC4404
NJM12904V
R4475 10
Q4411 2SA1602A(EF)
TEMP_OUT
R4365 CCX1058-A
C4351 1u/16 YB
R4368 22k 1%
R4366 10k 1%
R4367 1k 1%
Q4310 2SA1514K(RS)
C4352 0.1u/16 YB
R4369 12k 1%
R4370 1k
C4353 0.1u/16 YB
Q4311 2SA1602A(EF)

(SL) : Audio Signal Route (Surround L ch)

10.24 ICEPOWER AMP ASSY (4/5)


P CN3870
CN4600
XKP3062-A
SBR+
SBR-
GNDSBR
V+12SBR
V-12SBR
P CN3860
CN4500
CKS1716
SBL+
SBL-
GNDSBL
GNDSBL
V+12SBR
V-12SBR
D4600 1SS302
D4500 1SS302
IC4602 (1/2) UPC4570G2-A
IC4602 (2/2) UPC4570G2-A
SBR_IN
SBL_IN
C4608 220u/25 HAT
C4508 220u/25 HAT
CFHXSQ103J16-T
(SB)
IC4603 (2/2) NJM4565MD
IC4603 (1/2) NJM4565MD
DC offset
V-5VFILT3
IC4600 ICC1-AVR
MODULATOR
Q4608 2SD2704K
Q4508 2SD2704K
Q4606
Q4607
Q4506
Q4507
2SA1682(4)
Q4609 2SC4154(EFG)
Q4509 2SC4154(EFG)
D4611 NM
D4511 NM
OUT5_R
OUT5
OUT6
OUT6_L
PWM5
PWM6
MOD5
MOD6
ZOBEL5
ZOBEL6
OSC1
SBMUTE
VD_CHK3
VS_CHK3
AMPOVERLOAD
AMPDISABLE3
AM Switch Transistor
Q 1/5, 2/5, 3/5, 5/5
Q 1/5
Q 1/5, 2/5, 3/5, 5/5
Q 1/5
Q 1/5, 2/5, 3/5, 5/5
V+64V
V-64V
VD
VS
VD5
VD6
VS5
VS6
L4602 ATL7018-A
L4603 ATL7018-A
L4502 ATL7018-A
L4503 ATL7018-A
R4661 ACN7165-A
R4662 ACN7165-A
R4561 ACN7165-A
R4562 ACN7165-A
C4649 ACH7304-A
C4650 ACH7304-A
C4549 ACH7304-A
C4550 ACH7304-A

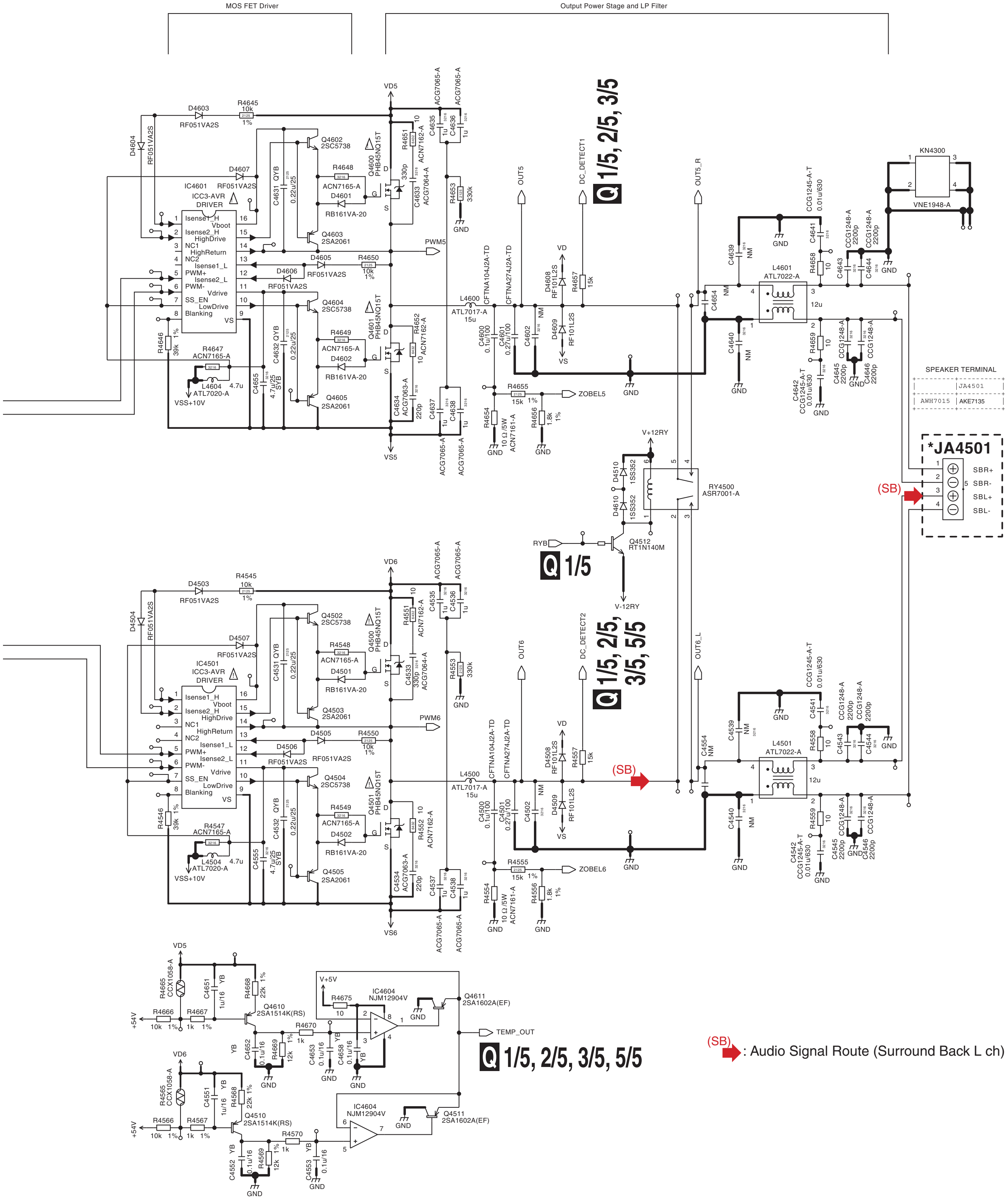
The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

NOTE
1. RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB,SYB:CKSYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ*** 1/8W	RS1/8S*** RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

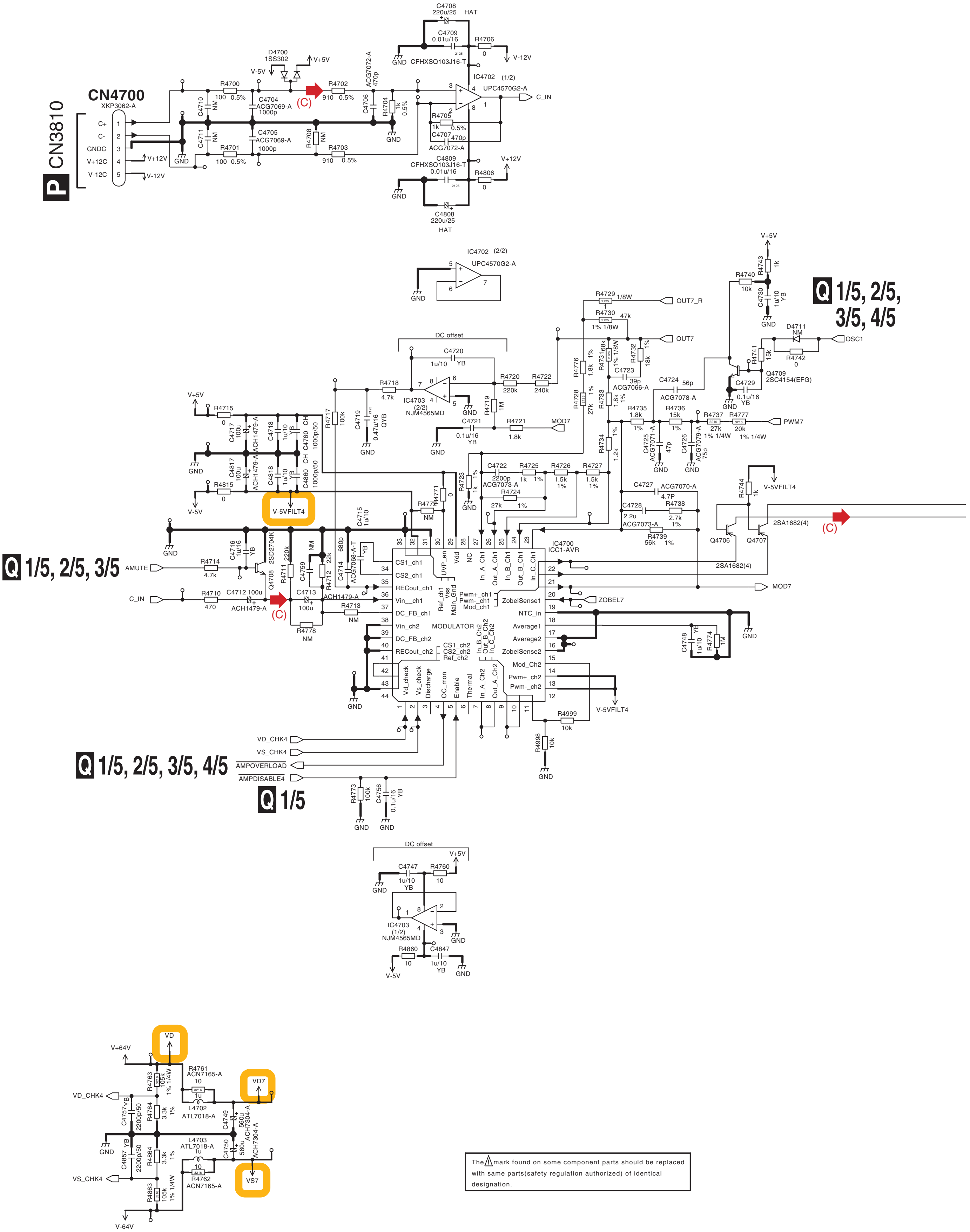
Q 4/5

Q 4/5 ICEPOWER AMP ASSY (AWH7015)


MOS FET Driver
Output Power Stage and LP Filter
IC4601 ICC3-AVR DRIVER
IC4501 ICC3-AVR DRIVER
1 Isense1_H
2 Isense2_H
3 NC1
4 NC2
5 PWM+
6 PWM-
7 SS_EN
8 Blanking
16 Vboot
15 HighDrive
14 HighReturn
13 Isense1_L
12 Isense2_L
11 Vdrive
10 LowDrive
9 VS
D4603 RF051VA2S
R4645 10k 1%
D4604 RF051VA2S
D4607 RF051VA2S
C4631 QYB 0.22u/25
Q4602 2SC5738
Q4603 2SA2061
R4648 ACN7165-A
D4601 RB161VA-20
Q4600 PHB45NQ15T
R4651 10 ACN7162-A
330p C4633 ACG7064-A
C4635 1u C4636 1u
ACG7065-A
VD5
R4653 330k
GND
PWM5
D4605
R4650 10k 1%
D4606 RF051VA2S
RF051VA2S
Q4604 2SC5738
Q4601 PHB45NQ15T
R4649 ACN7165-A
D4602 RB161VA-20
R4652 10 ACN7162-A
C4632 QYB 0.22u/25
Q4605 2SA2061
C4634 ACG7063-A 220p
C4637 1u C4638 1u
VS5
R4646 39k 1%
R4647 ACN7165-A
L4604 4.7u ATL7020-A
VSS+10V
C4655 4.7u/25 SYB
OUT5
DC_DETECT1
Q 1/5, 2/5, 3/5
L4600 ATL7017-A 15u
CFTNA104J2A-TD
CFTNA274J2A-TD
C4600 0.1u/100
C4601 0.27u/100
C4602 NM
VD
D4608 RF101L2S
R4657 15k
D4609 RF101L2S
VS
R4655 15k 1%
ZOBEL5
R4654 10 Ω /5W ACN7161-A
R4656 1.8k 1%
GND
OUT5_R
C4639 NM
C4654 NM
L4601 ATL7022-A 12u
CCG1245-A-T 0.01u/630
C4641
R4658 10
C4643
CCG1248-A 2200p
C4644
C4640 NM
R4659 10
C4642 CCG1245-A-T 0.01u/630
C4645 2200p
C4646 2200p
KN4300 VNE1948-A
SPEAKER TERMINAL
JA4501 AWH7015 AKE7135
*JA4501
SBR+ SBR- SBL+ SBL-
(SB)
V+12RY
D4510 1SS352
D4610 1SS352
RY4500 ASR7001-A
RYB
Q4512 RT1N140M
Q 1/5
V-12RY
VD6
D4503 RF051VA2S
R4545 10k 1%
D4504 RF051VA2S
D4507 RF051VA2S
C4531 QYB 0.22u/25
Q4502 2SC5738
Q4503 2SA2061
R4548 ACN7165-A
D4501 RB161VA-20
Q4500 PHB45NQ15T
R4551 10 ACN7162-A
C4533 330p ACG7064-A
C4535 1u C4536 1u
R4553 330k
PWM6
D4505
R4550 10k 1%
D4506 RF051VA2S
Q4504 2SC5738
Q4501 PHB45NQ15T
R4549 ACN7165-A
D4502 RB161VA-20
R4552 10 ACN7162-A
C4532 QYB 0.22u/25
Q4505 2SA2061
C4534 ACG7063-A 220p
C4537 1u C4538 1u
VS6
R4546 39k 1%
R4547 ACN7165-A
L4504 4.7u ATL7020-A
VSS+10V
C4555 4.7u/25 SYB
OUT6
DC_DETECT2
Q 1/5, 2/5, 3/5, 5/5
L4500 ATL7017-A 15u
C4500 0.1u/100
C4501 0.27u/100
C4502 NM
D4508 RF101L2S
R4557 15k
D4509 RF101L2S
R4555 15k 1%
ZOBEL6
R4554 10 Ω /5W ACN7161-A
R4556 1.8k 1%
OUT6_L
C4539 NM
C4554 NM
L4501 ATL7022-A 12u
C4541
R4558 10
C4543
C4544
C4540 NM
R4559 10
C4542 CCG1245-A-T 0.01u/630
C4545 2200p
C4546 2200p
VD5
R4665 CCX1058-A
C4651 1u/16 YB
R4668 22k 1%
Q4610 2SA1514K(RS)
+54V
R4666 10k 1%
R4667 1k 1%
R4670 1k
C4652 0.1u/16 YB
R4669 12k
C4653 0.1u/16
C4658 0.1u/16 YB
V+5V
R4675 10
IC4604 NJM12904V
Q4611 2SA1602A(EF)
TEMP_OUT
Q 1/5, 2/5, 3/5, 5/5
VD6
R4565 CCX1058-A
C4551 1u/16 YB
R4568 22k 1%
Q4510 2SA1514K(RS)
R4566 10k 1%
R4567 1k 1%
R4570 1k
C4552 0.1u/16 YB
R4569 12k 1%
C4553 0.1u/16 YB
IC4604 NJM12904V
Q4511 2SA1602A(EF)
GND

(SB) : Audio Signal Route (Surround Back L ch)

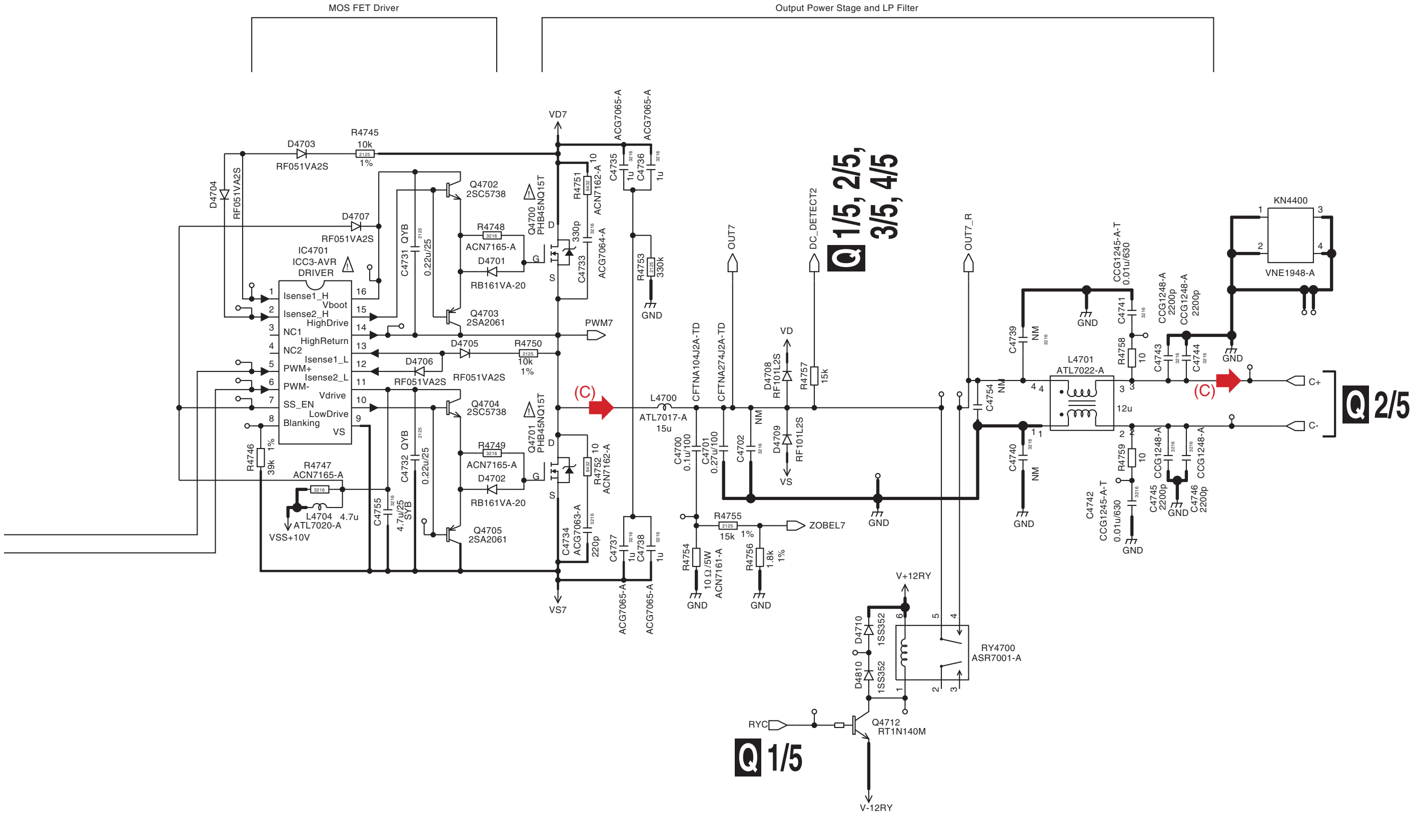
10.25 ICEPOWER AMP ASSY (5/5)

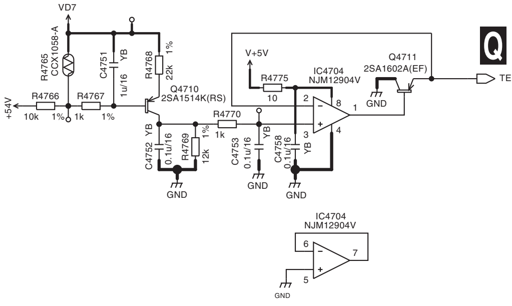

A
B
C
D
E
F
P CN3810
CN4700
XKP3062-A
C+
C-
GNDC
V+12C
V-12C
1
2
3
4
5
V+12V
V-12V
GND
D4700
1SS302
V-5V
V+5V
R4700
100 0.5%
C4710
NM
C4704
ACG7069-A
1000p
(C)
R4702
910 0.5%
ACG7072-A
470p
C4706
R4704
1k
0.5%
C4711
NM
C4705
ACG7069-A
1000p
R4701
100 0.5%
R4708
NM
R4703
910 0.5%
R4705
1k 0.5%
C4707
470p
ACG7072-A
C4708
220u/25
HAT
C4709
0.01u/16
CFHXSQ103J16-T
R4706
0
V-12V
IC4702 (1/2)
UPC4570G2-A
C_IN
C4809
CFHXSQ103J16-T
0.01u/16
R4806
0
V+12V
C4808
220u/25
HAT
IC4702 (2/2)
UPC4570G2-A
Q 1/5, 2/5, 3/5, 4/5
R4729
1/8W
R4730
47k
1% 1/8W
OUT7_R
OUT7
R4740
10k
R4743
1k
V+5V
C4730
1u/10
YB
D4711
NM
OSC1
R4742
0
R4741
15k
Q4709
2SC4154(EFG)
C4729
0.1u/16
YB
DC offset
C4720
1u/10 YB
R4718
4.7k
IC4703
(2/2)
NJM4565MD
R4720
220k
R4722
240k
R4719
1M
C4721
0.1u/16
YB
R4721
1.8k
MOD7
R4717
100k
C4719
0.47u/16
QYB
R4776
1.8k
R4728
27k
R4731
68k
R4733
1.8k
R4732
18k
C4723
39p
ACG7066-A
C4724
56p
ACG7078-A
R4735
1.8k
R4736
15k
R4737
27k
1% 1/4W
R4777
20k
1% 1/4W
PWM7
C4725
ACG7071-A
47p
C4726
ACG7079-A
75p
R4734
1.2k
V+5V
R4715
0
C4717
100u
ACH1479-A
C4718
1u/10
YB
C4760
1000p/50
CH
C4817
100u
ACH1479-A
C4818
1u/10
YB
C4860
1000p/50
CH
R4815
0
V-5V
V-5VFILT4
C4722
2200p
ACG7073-A
R4725
1k
R4726
1.5k
R4727
1.5k
R4724
27k
R4723
1k
C4727
ACG7070-A
4.7P
C4728
2.2u
ACG7073-A
R4738
2.7k
R4739
56k
R4744
1k
V-5VFILT4
Q4706
Q4707
2SA1682(4)
(C)
2SA1682(4)
R4771
0
R4772
NM
C4715
1u/10
Q 1/5, 2/5, 3/5
AMUTE
R4714
4.7k
C4716
1u/16
YB
Q4708
2SD2704K
R4711
220k
C4759
NM
R4712
22k
C4714
680p
ACG7068-A-T
YB
C_IN
R4710
470
C4712 100u
ACH1479-A
(C)
C4713
100u
ACH1479-A
R4713
NM
R4778
NM
IC4700
ICC1-AVR
CS1_ch1
CS2_ch1
RECout_ch1
Vin__ch1
DC_FB_ch1
Vin_ch2
DC_FB_ch2
RECout_ch2
MODULATOR
UVP_en
Vdd
NC
In_A_Ch1
Out_A_Ch1
In_B_Ch1
Out_B_Ch1
In_C_Ch1
Ref_ch1
Vss
Main_Gnd
Pwm+_ch1
Pwm-_ch1
Mod_ch1
ZobelSense1
NTC_in
Average1
Average2
ZobelSense2
Mod_Ch2
Pwm+_ch2
Pwm-_ch2
CS1_ch2
CS2_ch2
Ref_ch2
In_B_Ch2
Out_B_Ch2
In_C_Ch2
Vd_check
Vs_check
Discharge
OC_mon
Enable
Thermal
In_A_Ch2
Out_A_Ch2
MOD7
ZOBEL7
C4748
1u/10
YB
R4774
1M
V-5VFILT4
R4999
10k
R4998
10k
Q 1/5, 2/5, 3/5, 4/5
VD_CHK4
VS_CHK4
AMPOVERLOAD
AMPDISABLE4
Q 1/5
R4773
100k
C4756
0.1u/16
YB
DC offset
V+5V
C4747
1u/10
YB
R4760
10
IC4703
(1/2)
NJM4565MD
R4860
10
C4847
1u/10
YB
V-5V
V+64V
VD
R4763
105k
1% 1/4W
R4761
ACN7165-A
10
VD7
L4702
1u
ATL7018-A
C4749
560u
ACH7304-A
VD_CHK4
C4757
YB
2200p/50
R4764
3.3k
1%
L4703
ATL7018-A
1u
C4750
560u
ACH7304-A
C4857
YB
2200p/50
R4864
3.3k
1%
R4762
10
ACN7165-A
VS7
VS_CHK4
R4863
105k
1% 1/4W
V-64V
GND

The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

Q 5/5

Q 5/5 ICEPOWER AMP ASSY (AWH7015)


MOS FET Driver
Output Power Stage and LP Filter
VD7
R4745 10k 1%
D4703 RF051VA2S
D4704 RF051VA2S
D4707 RF051VA2S
IC4701 ICC3-AVR DRIVER
Isense1_H
Vboot
Isense2_H
HighDrive
NC1
HighReturn
NC2
Isense1_L
PWM+
Isense2_L
PWM-
Vdrive
SS_EN
LowDrive
Blanking
VS
Q4702 2SC5738
Q4703 2SA2061
Q4704 2SC5738
Q4705 2SA2061
C4731 QYB 0.22u/25
C4732 QYB 0.22u/25
R4748 ACN7165-A
R4749 ACN7165-A
D4701 RB161VA-20
D4702 RB161VA-20
D4705 RF051VA2S
D4706 RF051VA2S
R4750 10k 1%
Q4700 PHB45NQ15T
Q4701 PHB45NQ15T
R4751 10 ACN7162-A
R4752 10 ACN7162-A
C4733 330p ACG7064-A
C4734 ACG7063-A 220p
C4735 1u ACG7065-A
C4736 1u ACG7065-A
C4737 1u ACG7065-A
C4738 1u ACG7065-A
R4753 330k
GND
PWM7
R4746 39k 1%
R4747 ACN7165-A
L4704 4.7u ATL7020-A
VSS+10V
C4755 4.7u/25 SYB
VS7
(C)
L4700 ATL7017-A 15u
C4700 0.1u/100 CFTNA104J2A-TD
C4701 0.27u/100 CFTNA274J2A-TD
C4702 NM
OUT7
DC_DETECT2
OUT7_R
Q 1/5, 2/5, 3/5, 4/5
VD
D4708 RF101L2S
D4709 RF101L2S
R4757 15k
VS
R4754 10 Ω /5W ACN7161-A
R4755 15k 1%
R4756 1.8k 1%
ZOBEL7
GND
C4754 NM
C4739 NM
C4740 NM
L4701 ATL7022-A 12u
R4758 10
R4759 10
C4741 CCG1245-A-T 0.01u/630
C4742 CCG1245-A-T 0.01u/630
C4743 CCG1248-A 2200p
C4744 CCG1248-A 2200p
C4745 CCG1248-A 2200p
C4746 CCG1248-A 2200p
KN4400 VNE1948-A
C+
C-
Q 2/5
V+12RY
D4710 1SS352
D4810 1SS352
RY4700 ASR7001-A
RYC
Q4712 RT1N140M
Q 1/5
V-12RY


VD7
R4765 CCX1058-A
C4751 1u/16 YB
R4768 22k 1%
+54V
R4766 10k 1%
R4767 1k 1%
Q4710 2SA1514K(RS)
R4770 1k
C4752 YB 0.1u/16
R4769 12k 1%
C4753 0.1u/16 YB
C4758 0.1u/16 YB
GND
V+5V
R4775 10
IC4704 NJM12904V
Q4711 2SA1602A(EF)
GND
TEMP_OUT
IC4704 NJM12904V

Q 1/5, 2/5, 3/5, 4/5

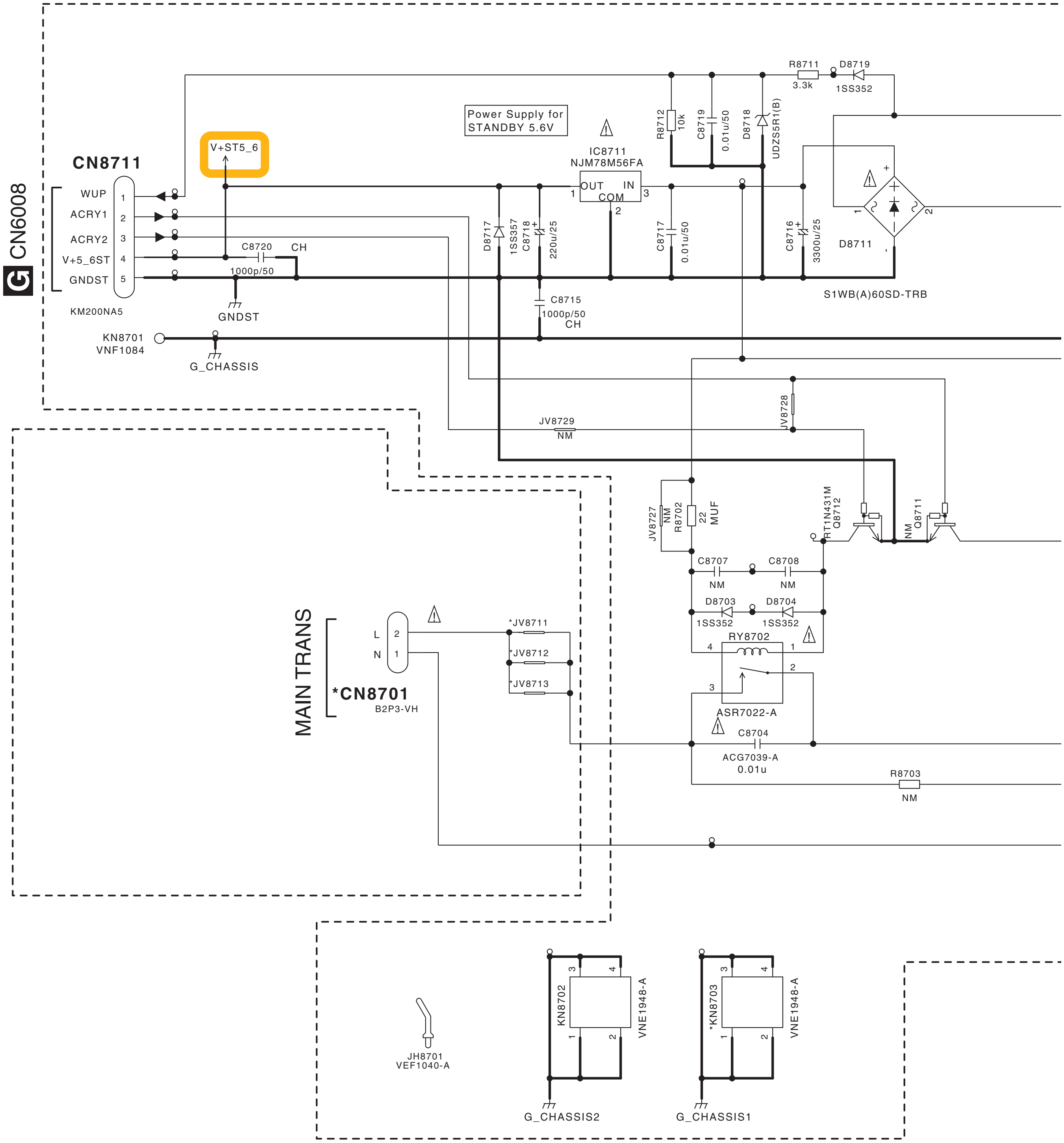
(C) : Audio Signal Route (Center)

NOTE
1. RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB,SYB:CKSYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ*** 1/8W	RS1/8S*** RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

10.26 PRIMARY ASSY

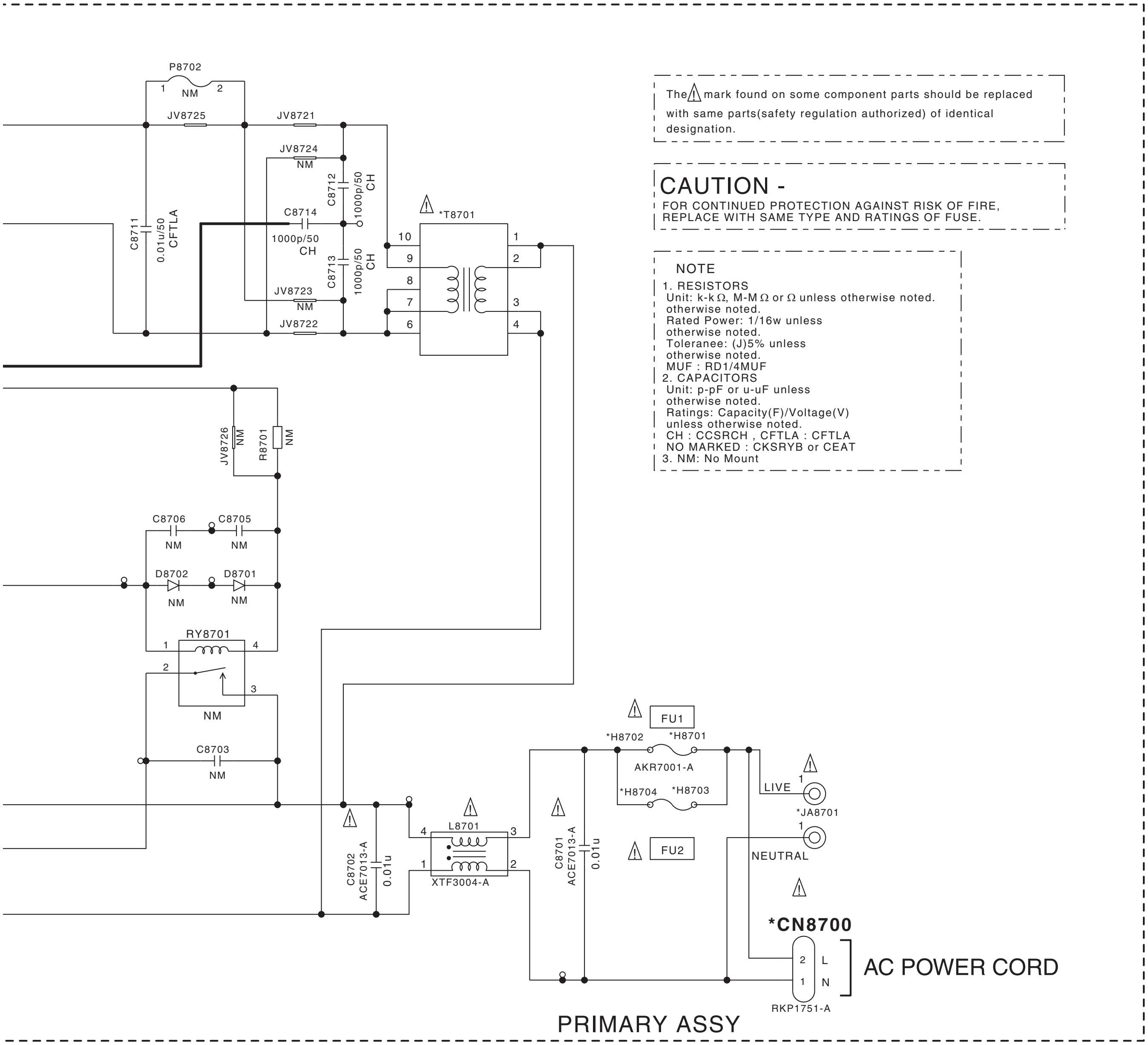
	AWX9154
CN8701	B2P3-VH
CN8702	NM
JP8701	NM
JP8702	NM
JP8703	NM
JP8701_1	NM
JP8702_1	NM
JP8703_1	NM
JV8711	
JV8712	
JV8713	
S8751	NM



G CN6008
CN8711
WUP
ACRY1
ACRY2
V+5_6ST
GNDST
KM200NA5
V+ST5_6
C8720
1000p/50
CH
GNDST
KN8701
VNF1084
G_CHASSIS
Power Supply for
STANDBY 5.6V
IC8711
NJM78M56FA
OUT
IN
COM
D8717
1SS357
C8718
220u/25
C8715
1000p/50
CH
R8712
10k
C8719
0.01u/50
D8718
UDZS5R1(B)
C8717
0.01u/50
R8711
3.3k
D8719
1SS352
C8716
3300u/25
D8711
S1WB(A)60SD-TRB
JV8729
NM
JV8728
JV8727
NM
R8702
22
MUF
RT1N431M
Q8712
NM
Q8711
C8707
NM
C8708
NM
D8703
1SS352
D8704
1SS352
RY8702
ASR7022-A
C8704
ACG7039-A
0.01u
R8703
NM
MAIN TRANS
L
N
*CN8701
B2P3-VH
*JV8711
*JV8712
*JV8713
JH8701
VEF1040-A
KN8702
VNE1948-A
*KN8703
VNE1948-A
G_CHASSIS2
G_CHASSIS1

T PRIMARY ASSY (AWX9154)

	AWX9154
CN8700	RKP1751-A
H8701	AKR7001-A
H8702	AKR7001-A
H8703	NM
H8704	NM
JA8701	NM
JA8701_1	NM
KN8703	VNE1948-A
T8701	ATT7043-A

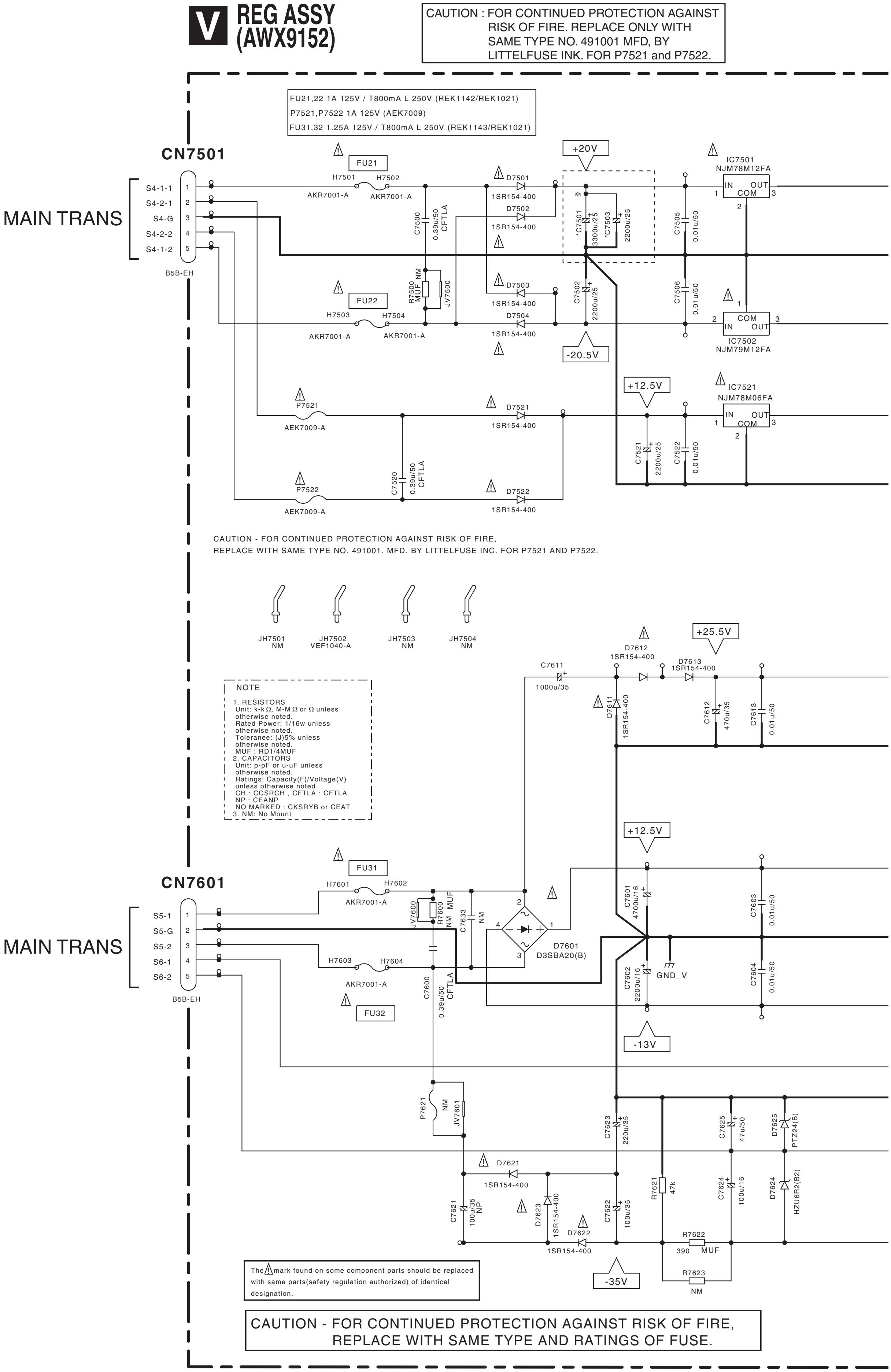

P8702
1 NM 2
JV8725
JV8721
JV8724
NM
C8712
1000p/50
CH
C8714
1000p/50
CH
C8711
0.01u/50
CFTLA
C8713
1000p/50
CH
JV8723
NM
JV8722
*T8701
10
9
8
7
6
1
2
3
4
JV8726
NM
R8701
NM
C8706
NM
C8705
NM
D8702
NM
D8701
NM
RY8701
1
4
2
3
NM
C8703
NM
C8702
ACE7013-A
0.01u
L8701
4
3
1
2
XTF3004-A
C8701
ACE7013-A
0.01u
FU1
*H8702
*H8701
AKR7001-A
*H8704
*H8703
FU2
LIVE
1
*JA8701
1
NEUTRAL
*CN8700
2 L
1 N
RKP1751-A
AC POWER CORD
PRIMARY ASSY

The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

CAUTION -
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

NOTE
1. RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted. otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
MUF : RD1/4MUF
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH , CFTLA : CFTLA
NO MARKED : CKSRYB or CEAT
3. NM: No Mount

10.27 REG ASSY



V REG ASSY (AWX9152)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491001 MFD, BY LITTELFUSE INK. FOR P7521 and P7522.

FU21,22 1A 125V / T800mA L 250V (REK1142/REK1021)
P7521,P7522 1A 125V (AEK7009)
FU31,32 1.25A 125V / T800mA L 250V (REK1143/REK1021)

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE NO. 491001. MFD. BY LITTELFUSE INC. FOR P7521 AND P7522.

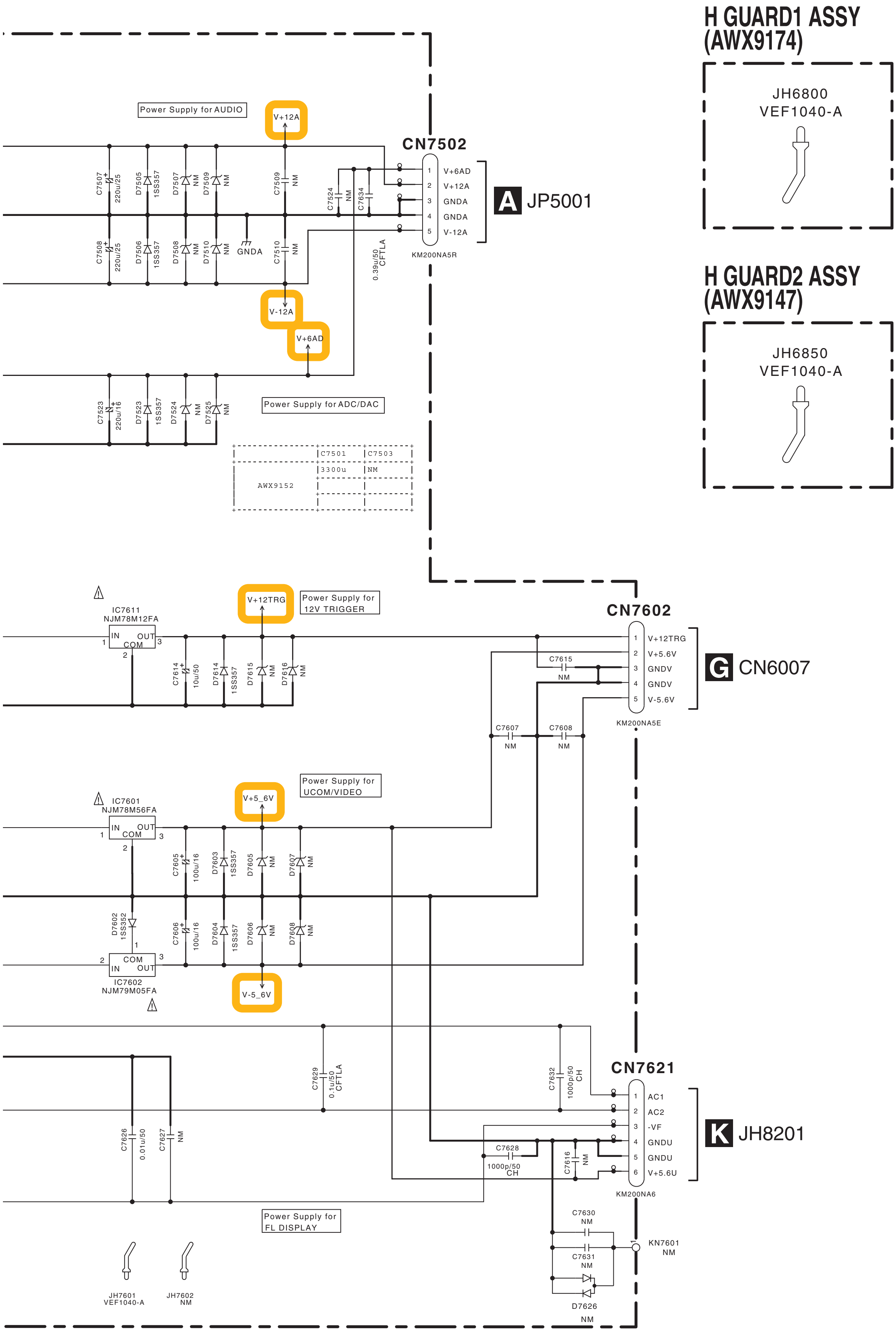
NOTE

1. RESISTORS
 Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
 Rated Power: 1/16w unless otherwise noted.
 Toleranee: (J)5% unless otherwise noted.
 MUF : RD1/4MUF
2. CAPACITORS
 Unit: p-pF or u-uF unless otherwise noted.
 Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
 CH : CCSRCH , CFTLA : CFTLA
 NP : CEANP
 NO MARKED : CKSRYB or CEAT
3. NM: No Mount

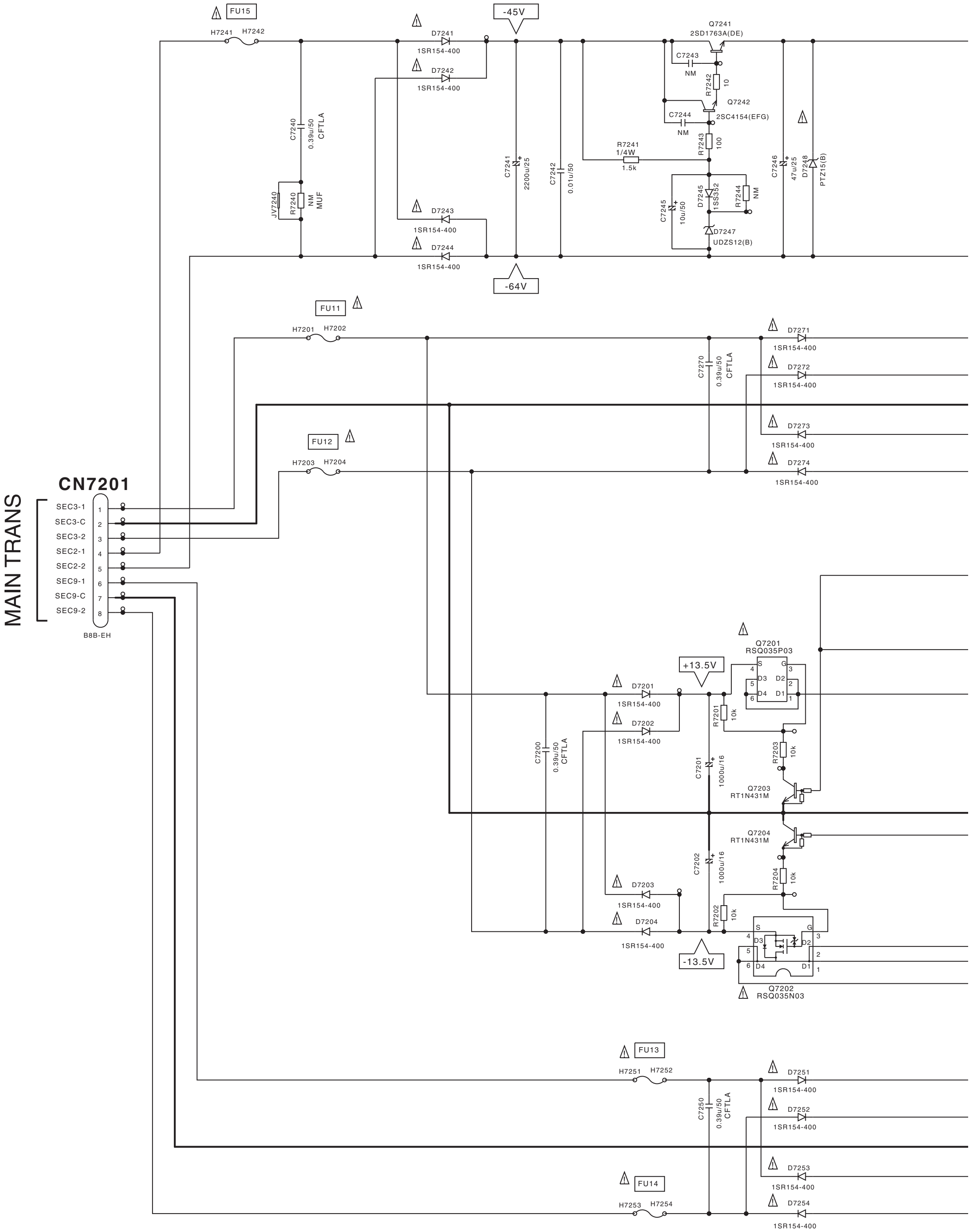
The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

CN7501
MAIN TRANS
S4-1-1
S4-2-1
S4-G
S4-2-2
S4-1-2
B5B-EH
FU21
H7501
H7502
AKR7001-A
C7500
0.39u/50 CFTLA
R7500 MUF NM
JV7500
FU22
H7503
H7504
D7501
D7502
D7503
D7504
1SR154-400
+20V
C7501
3300u/25
C7503
2200u/25
C7502
2200u/25
-20.5V
C7505
0.01u/50
C7506
IC7501
NJM78M12FA
IN OUT COM
IC7502
NJM79M12FA
P7521
P7522
AEK7009-A
C7520
D7521
D7522
+12.5V
C7521
2200u/25
C7522
IC7521
NJM78M06FA
JH7501 NM
JH7502 VEF1040-A
JH7503 NM
JH7504 NM
+25.5V
C7611
1000u/35
D7612
D7613
D7611
C7612
470u/35
C7613
0.01u/50
CN7601
S5-1
S5-G
S5-2
S6-1
S6-2
FU31
H7601
H7602
JV7600
R7600 NM MUF
C7633 NM
D7601
D3SBA20(B)
C7601
4700u/16
C7602
2200u/16
GND_V
C7603
C7604
H7603
H7604
FU32
C7600
0.39u/50 CFTLA
-13V
P7621
NM
JV7601
C7623
220u/35
C7625
47u/50
D7625
PTZ24(B)
D7621
C7621
100u/35 NP
D7623
D7622
C7622
100u/35
R7621
47k
C7624
100u/16
D7624
HZU6R2(B2)
R7622
390 MUF
R7623
NM
-35V

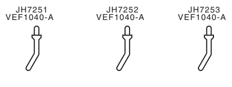

H GUARD1 ASSY
(AWX9174)
JH6800
VEF1040-A
H GUARD2 ASSY
(AWX9147)
JH6850
VEF1040-A
Power Supply for AUDIO
V+12A
C7507 220u/25
D7505 1SS357
D7507 NM
D7509 NM
C7509 NM
C7524 NM
C7634 0.39u/50 CFTLA
C7508 220u/25
D7506 1SS357
D7508 NM
D7510 NM
GNDA
C7510 NM
V-12A
V+6AD
CN7502
1 V+6AD
2 V+12A
3 GNDA
4 GNDA
5 V-12A
KM200NA5R
A JP5001
C7523 220u/16
D7523 1SS357
D7524 NM
D7525 NM
Power Supply for ADC/DAC
AWX9152
C7501
C7503
3300u
NM
IC7611
NJM78M12FA
IN OUT COM
1 2 3
V+12TRG
Power Supply for 12V TRIGGER
C7614 10u/50
D7614 1SS357
D7615 NM
D7616 NM
CN7602
1 V+12TRG
2 V+5.6V
3 GNDV
4 GNDV
5 V-5.6V
KM200NA5E
G CN6007
C7615 NM
C7607 NM
C7608 NM
IC7601
NJM78M56FA
V+5_6V
Power Supply for UCOM/VIDEO
C7605 100u/16
D7603 1SS357
D7605 NM
D7607 NM
D7602 1SS352
C7606 100u/16
D7604 1SS357
D7606 NM
D7608 NM
IC7602
NJM79M05FA
V-5_6V
C7629 0.1u/50 CFTLA
C7632 1000p/50 CH
CN7621
1 AC1
2 AC2
3 -VF
4 GNDU
5 GNDU
6 V+5.6U
KM200NA6
K JH8201
C7626 0.01u/50
C7627 NM
C7628 1000p/50 CH
C7616 NM
Power Supply for FL DISPLAY
C7630 NM
C7631 NM
KN7601 NM
D7626 NM
JH7601 VEF1040-A
JH7602 NM

10.28 ICE REG ASSY


FU15
H7241
H7242
C7240
0.39u/50
CFTLA
JV7240
R7240
NM
MUF
D7241
1SR154-400
D7242
1SR154-400
D7243
1SR154-400
D7244
1SR154-400
-45V
-64V
C7241
2200u/25
C7242
0.01u/50
R7241
1/4W
1.5k
Q7241
2SD1763A(DE)
C7243
NM
R7242
10
Q7242
2SC4154(EFG)
C7244
NM
R7243
100
D7245
1SS352
R7244
NM
C7245
10u/50
D7247
UDZS12(B)
C7246
47u/25
D7248
PTZ15(B)
FU11
H7201
H7202
C7270
0.39u/50
CFTLA
D7271
1SR154-400
D7272
1SR154-400
D7273
1SR154-400
D7274
1SR154-400
FU12
H7203
H7204
CN7201
MAIN TRANS
SEC3-1
SEC3-C
SEC3-2
SEC2-1
SEC2-2
SEC9-1
SEC9-C
SEC9-2
1
2
3
4
5
6
7
8
B8B-EH
Q7201
RSQ035P03
S
G
D3
D2
D4
D1
+13.5V
D7201
1SR154-400
D7202
1SR154-400
C7200
0.39u/50
CFTLA
R7201
10k
C7201
1000u/16
R7203
10k
Q7203
RT1N431M
Q7204
RT1N431M
C7202
1000u/16
R7204
10k
D7203
1SR154-400
D7204
1SR154-400
R7202
10k
-13.5V
Q7202
RSQ035N03
FU13
H7251
H7252
C7250
0.39u/50
CFTLA
D7251
1SR154-400
D7252
1SR154-400
D7253
1SR154-400
FU14
H7253
H7254
D7254
1SR154-400

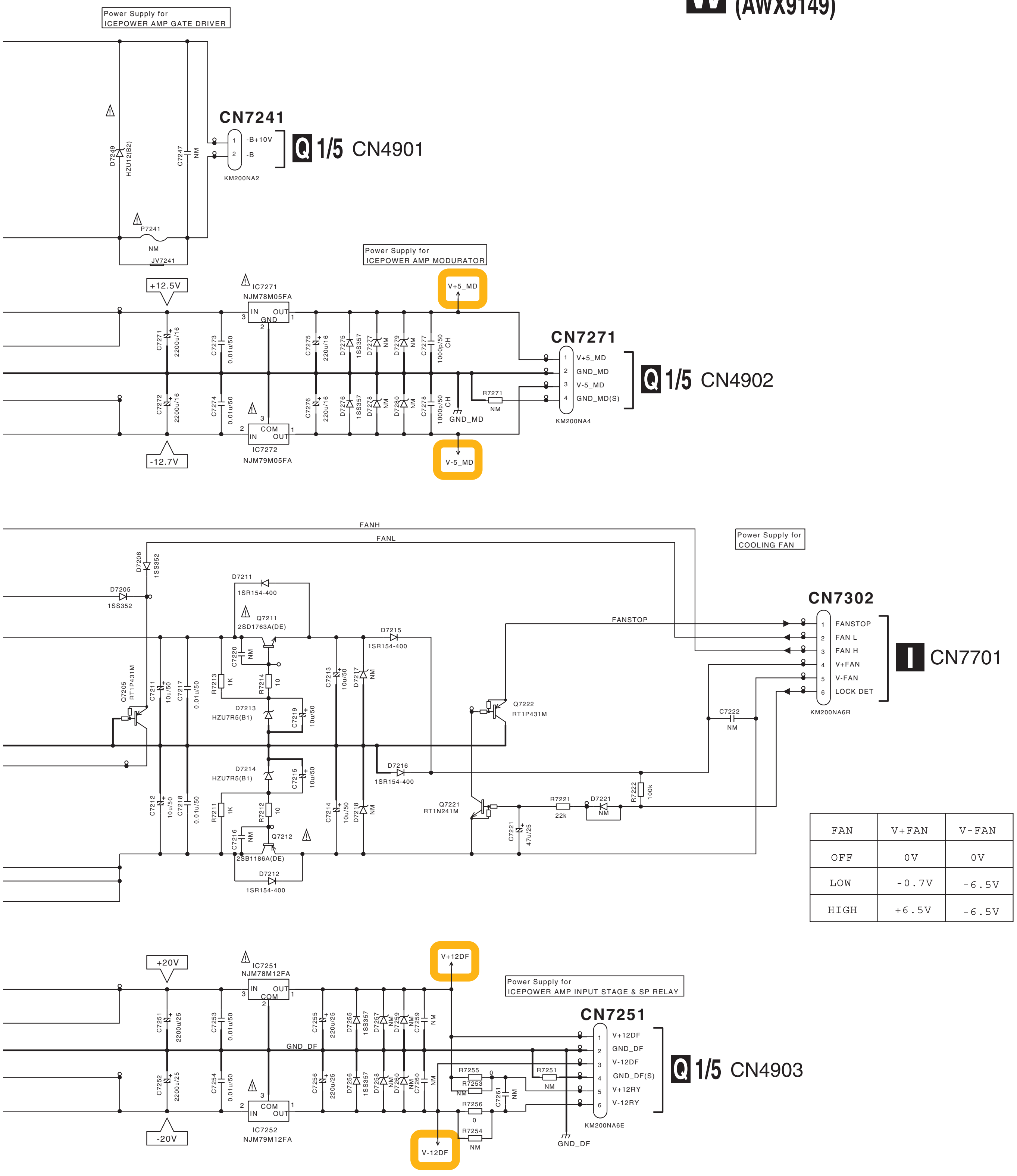
NOTE

1. RESISTORS
 Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
 Rated Power: 1/16w unless otherwise noted.
 Toleranee: (J)5% unless otherwise noted.
 MUF : RD1/4MUF
2. CAPACITORS
 Unit: p-pF or u-uF unless otherwise noted.
 Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
 CH : CCSRCH , CFTLA : CFTLA
 NO MARKED : CKSRYB or CEAT
3. NM: No Mount


JH7251
VEF1040-A
JH7252
VEF1040-A
JH7253
VEF1040-A

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

W ICE REG ASSY (AWX9149)

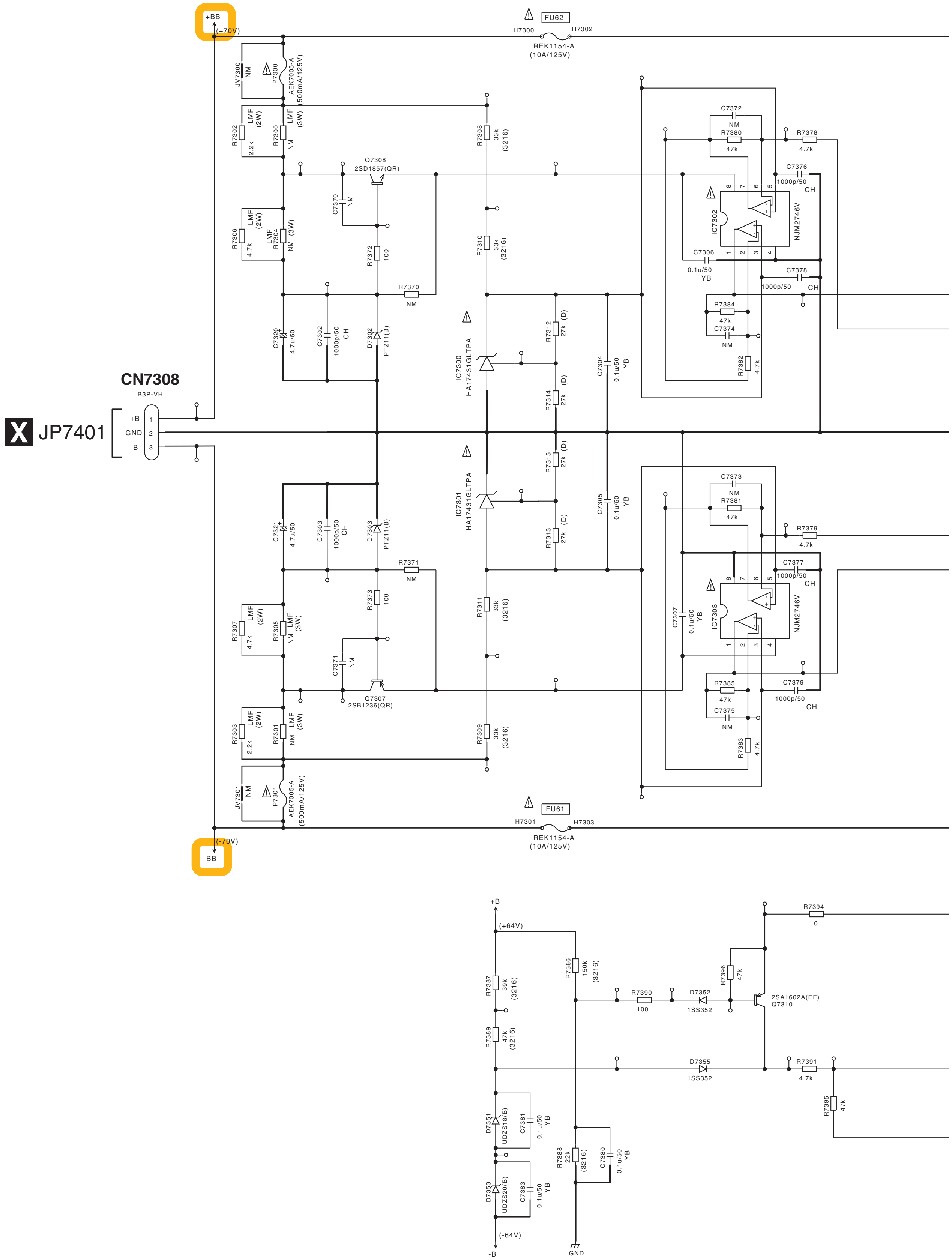


Power Supply for ICEPOWER AMP GATE DRIVER
CN7241
1 -B+10V
2 -B
KM200NA2
Q 1/5 CN4901
D7249 HZU12(B2)
C7247 NM
P7241
NM
JV7241
Power Supply for ICEPOWER AMP MODURATOR
+12.5V
IC7271 NJM78M05FA
IN OUT GND
V+5_MD
C7271 2200u/16
C7273 0.01u/50
C7275 220u/16
D7275 1SS357
D7277 NM
D7279 NM
C7277 1000p/50 CH
CN7271
1 V+5_MD
2 GND_MD
3 V-5_MD
4 GND_MD(S)
KM200NA4
Q 1/5 CN4902
C7272 2200u/16
C7274 0.01u/50
C7276 220u/16
D7276 1SS357
D7278 NM
D7280 NM
C7278 1000p/50 CH
R7271 NM
GND_MD
COM IN OUT
IC7272 NJM79M05FA
-12.7V
V-5_MD
FANH
FANL
Power Supply for COOLING FAN
D7206 1SS352
D7205 1SS352
D7211 1SR154-400
Q7211 2SD1763A(DE)
D7215 1SR154-400
FANSTOP
CN7302
1 FANSTOP
2 FAN L
3 FAN H
4 V+FAN
5 V-FAN
6 LOCK DET
KM200NA6R
I CN7701
Q7205 RT1P431M
C7211 10u/50
C7217 0.01u/50
C7220 NM
R7213 1K
R7214 10
D7213 HZU7R5(B1)
C7219 10u/50
C7213 10u/50
D7217 NM
Q7222 RT1P431M
C7222 NM
D7214 HZU7R5(B1)
C7215 10u/50
D7216 1SR154-400
C7212 10u/50
C7218 0.01u/50
R7211 1K
R7212 10
C7216 NM
Q7212 2SB1186A(DE)
D7212 1SR154-400
C7214 10u/50
D7218 NM
Q7221 RT1N241M
R7221 22k
D7221 NM
R7222 100k
C7221 47u/25
+20V
IC7251 NJM78M12FA
IN OUT COM
V+12DF
Power Supply for ICEPOWER AMP INPUT STAGE & SP RELAY
C7251 2200u/25
C7253 0.01u/50
C7255 220u/25
D7255 1SS357
D7257 NM
D7259 NM
C7259 NM
GND_DF
CN7251
1 V+12DF
2 GND_DF
3 V-12DF
4 GND_DF(S)
5 V+12RY
6 V-12RY
KM200NA6E
Q 1/5 CN4903
C7252 2200u/25
C7254 0.01u/50
C7256 220u/25
D7256 1SS357
D7258 NM
D7260 NM
C7260 NM
R7255 0
R7253 NM
R7256 0
R7254 NM
C7261 NM
R7251 NM
GND_DF
COM IN OUT
IC7252 NJM79M12FA
-20V
V-12DF

FAN	V+FAN	V-FAN
OFF	0V	0V
LOW	-0.7V	-6.5V
HIGH	+6.5V	-6.5V

The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

10.29 B REG ASSY


+BB
(+70V)
FU62
H7300
H7302
REK1154-A
(10A/125V)
JV7300
NM
P7300
AEK7005-A
(500mA/125V)
R7302
2.2k
LMF
(2W)
R7300
NM
LMF
(3W)
R7308
33k
(3216)
Q7308
2SD1857(QR)
C7370
NM
R7372
100
R7306
4.7k
LMF
(2W)
R7304
NM
LMF
(3W)
R7310
33k
(3216)
R7370
NM
C7320
4.7u/50
C7302
1000p/50
CH
D7302
PTZ11(B)
IC7300
HA17431GLTPA
R7312
27k
(D)
R7314
27k
(D)
C7304
0.1u/50
YB
C7372
NM
R7380
47k
R7378
4.7k
C7376
1000p/50
CH
IC7302
NJM2746V
C7306
0.1u/50
YB
C7378
1000p/50
CH
R7384
47k
C7374
NM
R7382
4.7k
CN7308
B3P-VH
X JP7401
+B
GND
-B
1
2
3
R7315
27k
(D)
R7313
27k
(D)
IC7301
HA17431GLTPA
C7305
0.1u/50
YB
C7321
4.7u/50
C7303
1000p/50
CH
D7303
PTZ11(B)
R7371
NM
R7373
100
C7371
NM
Q7307
2SB1236(QR)
R7307
4.7k
LMF
(2W)
R7305
NM
LMF
(3W)
R7311
33k
(3216)
R7303
2.2k
LMF
(2W)
R7301
NM
LMF
(3W)
R7309
33k
(3216)
JV7301
NM
P7301
AEK7005-A
(500mA/125V)
C7373
NM
R7381
47k
R7379
4.7k
C7377
1000p/50
CH
C7307
0.1u/50
YB
IC7303
NJM2746V
R7385
47k
C7375
NM
C7379
1000p/50
CH
R7383
4.7k
FU61
H7301
H7303
REK1154-A
(10A/125V)
(-70V)
-BB
+B
(+64V)
R7387
39k
(3216)
R7389
47k
(3216)
R7386
150k
(3216)
R7390
100
D7352
1SS352
R7396
47k
2SA1602A(EF)
Q7310
R7394
0
D7355
1SS352
R7391
4.7k
R7395
47k
D7351
UDZS18(B)
C7381
0.1u/50
YB
R7388
22k
(3216)
C7380
0.1u/50
YB
D7353
UDZS20(B)
C7383
0.1u/50
YB
(-64V)
-B
GND

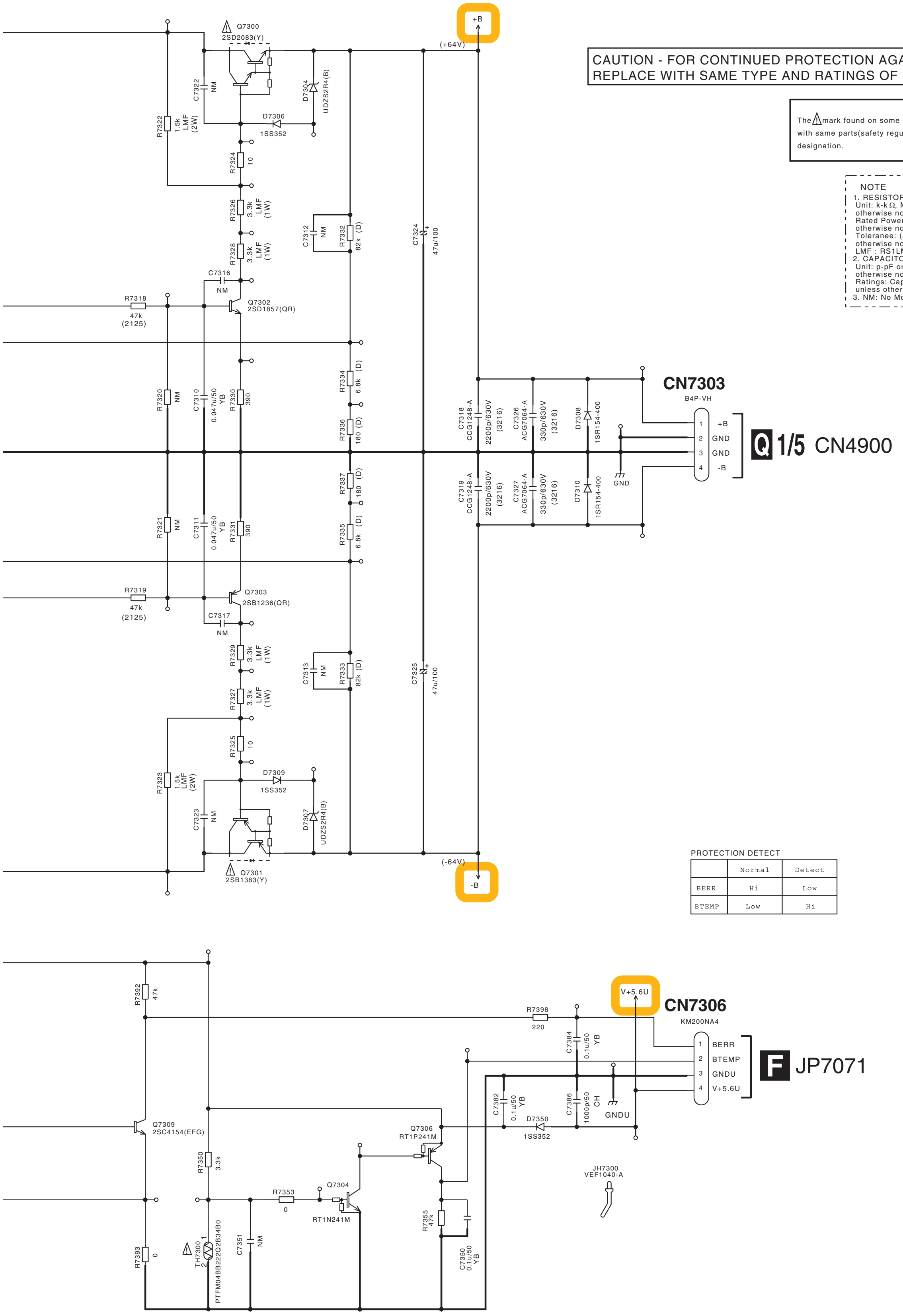
Y B REG ASSY (AWX9150)

CAUTION : FOR CONTINUED PROTECTION AGAINST
RISK OF FIRE. REPLACE ONLY WITH
SAME TYPE NO. 491.500 MFD, BY
LITTELFUSE INK. FOR P7300 and P7301.

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

NOTE
1. RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
LMF : RS1LMF,RS2LMF,RS3LMF
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount



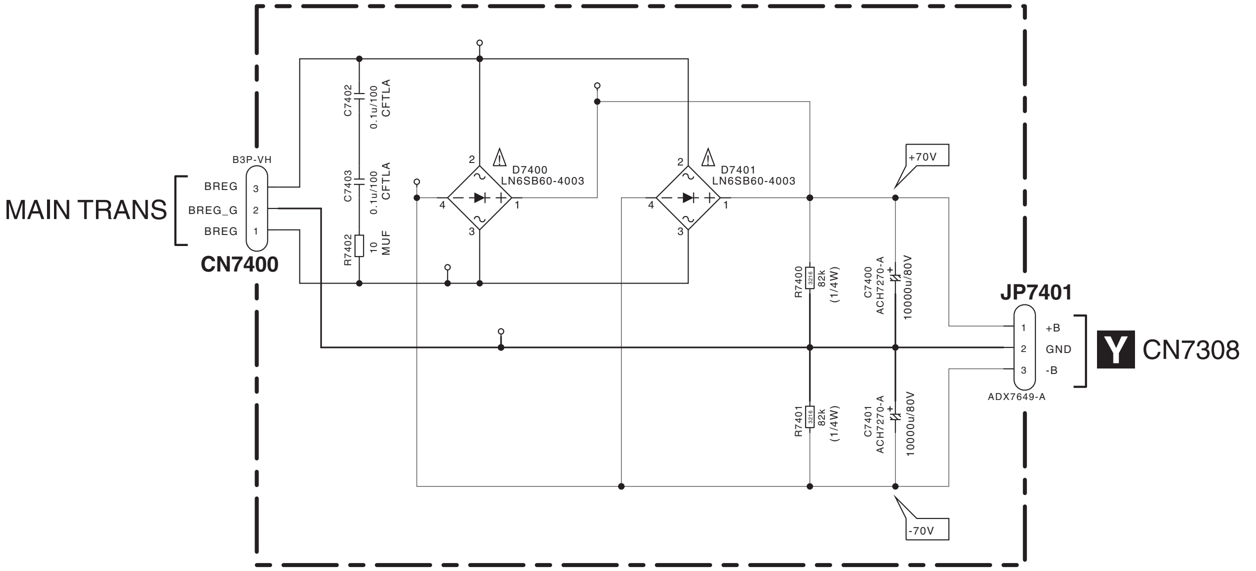
+B
(+64V)
Q7300
2SD2083(Y)
C7322
NM
R7322
1.5k
LMF
(2W)
D7304
UDZS2R4(B)
D7306
1SS352
R7324
10
R7326
3.3k
LMF
(1W)
R7328
3.3k
LMF
(1W)
C7312
NM
R7332
82k (D)
C7324
47u/100
C7316
NM
R7318
47k
(2125)
Q7302
2SD1857(QR)
R7334
6.8k (D)
R7336
180 (D)
R7320
NM
C7310
0.047u/50
YB
R7330
390
C7318
CCG1248-A
2200p/630V
(3216)
C7326
ACG7064-A
330p/630V
(3216)
D7308
1SR154-400
CN7303
B4P-VH
1 +B
2 GND
3 GND
4 -B
GND
Q 1/5 CN4900
C7319
CCG1248-A
2200p/630V
(3216)
C7327
ACG7064-A
330p/630V
(3216)
D7310
1SR154-400
R7337
180 (D)
R7335
6.8k (D)
R7321
NM
C7311
0.047u/50
YB
R7331
390
R7319
47k
(2125)
Q7303
2SB1236(QR)
C7317
NM
R7329
3.3k
LMF
(1W)
C7313
NM
R7333
82k (D)
C7325
47u/100
R7327
3.3k
LMF
(1W)
R7325
10
R7323
1.5k
LMF
(2W)
D7309
1SS352
C7323
NM
D7307
UDZS2R4(B)
Q7301
2SB1383(Y)
(-64V)
-B
R7392
47k
R7398
220
V+5.6U
CN7306
KM200NA4
1 BERR
2 BTEMP
3 GNDU
4 V+5.6U
F JP7071
C7384
0.1u/50
YB
C7382
0.1u/50
YB
C7386
1000p/50
CH
GNDU
D7350
1SS352
Q7309
2SC4154(EFG)
Q7306
RT1P241M
R7350
3.3k
R7353
0
Q7304
RT1N241M
R7355
47k
C7350
0.1u/50
YB
JH7300
VEF1040-A
R7393
0
TH7300
1
2
PTFM04BB222Q2B34B0
C7351
NM

PROTECTION DETECT

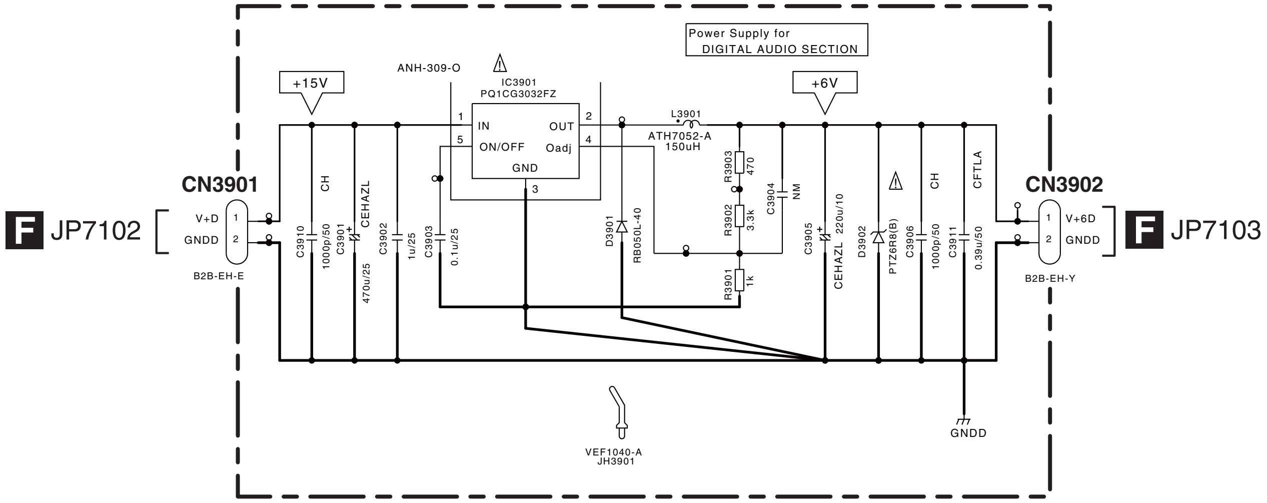
	Normal	Detect
BERR	Hi	Low
BTEMP	Low	Hi

10.30 B DIODE, DCDC, and HDMI RECT ASSYS

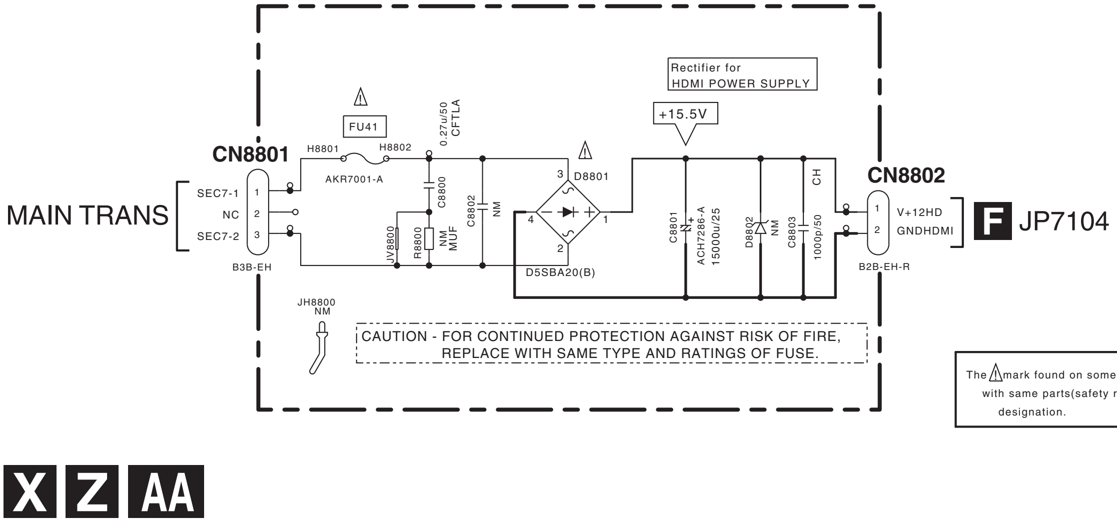
X B DIODE ASSY (AWX9171)


MAIN TRANS
BREG
BREG_G
BREG
B3P-VH
CN7400
C7402 0.1u/100 CFTLA
C7403 0.1u/100 CFTLA
R7402 10 MUF
D7400 LN6SB60-4003
D7401 LN6SB60-4003
+70V
-70V
R7400 82k (1/4W)
R7401 82k (1/4W)
C7400 ACH7270-A 10000u/80V
C7401 ACH7270-A 10000u/80V
JP7401
+B
GND
-B
ADX7649-A
Y CN7308

Z DCDC ASSY (AWX9138)


Power Supply for DIGITAL AUDIO SECTION
+15V
+6V
ANH-309-O
IC3901 PQ1CG3032FZ
IN
OUT
ON/OFF
Oadj
GND
L3901 ATH7052-A 150uH
CN3901
F JP7102
V+D
GNDD
B2B-EH-E
C3910 CH 1000p/50
C3901 CEHAZL 470u/25
C3902 1u/25
C3903 0.1u/25
D3901 RB050L-40
R3903 470
R3902 3.3k
R3901 1k
C3904 NM
C3905 CEHAZL 220u/10
D3902 PTZ6R8(B)
C3906 CH 1000p/50
C3911 CFTLA 0.39u/50
CN3902
V+6D
GNDD
B2B-EH-Y
F JP7103
GNDD
VEF1040-A JH3901

AA HDMI RECT ASSY (AWX9156)


Rectifier for HDMI POWER SUPPLY
FU41
H8801
H8802
AKR7001-A
0.27u/50 CFTLA
C8800
+15.5V
CN8801
MAIN TRANS
SEC7-1
NC
SEC7-2
B3B-EH
JV8800
R8800 NM MUF
C8802 NM
D8801
D5SBA20(B)
C8801 ACH7286-A 15000u/25
D8802 NM
C8803 CH 1000p/50
CN8802
V+12HD
GNDHDMI
B2B-EH-R
F JP7104
JH8800 NM

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

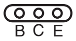
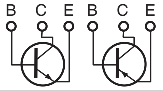
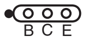
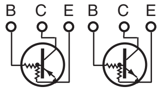
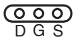
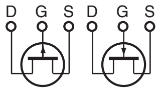
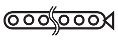
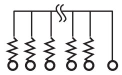
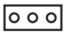
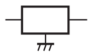
NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16w unless otherwise noted.
   Toleranee: (J)5% unless otherwise noted.
   MUF : RD1/4MUF
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CFTLA : CFTLA
3. NM: No Mount

The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

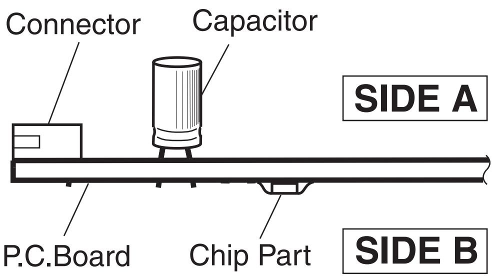
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

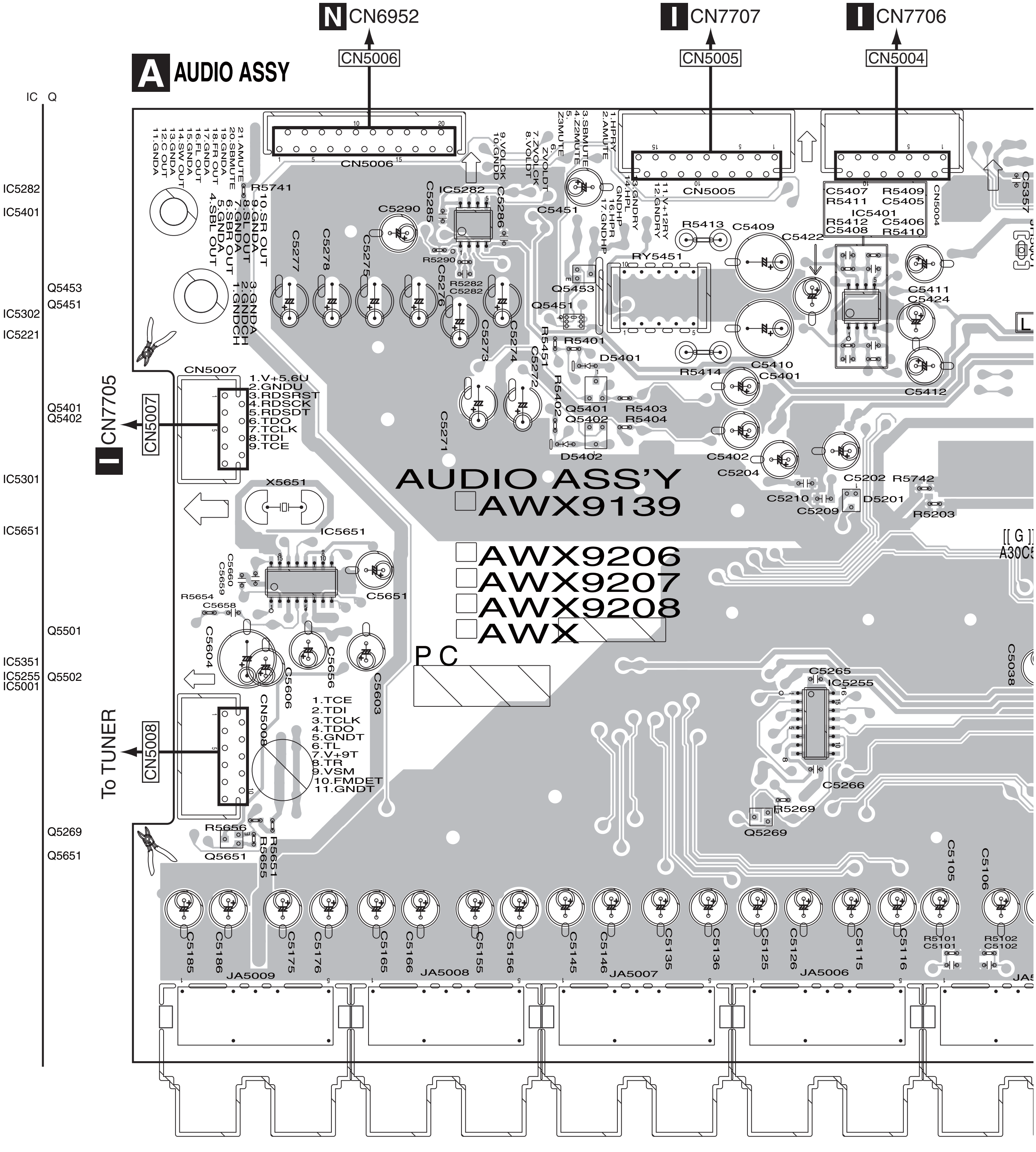
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

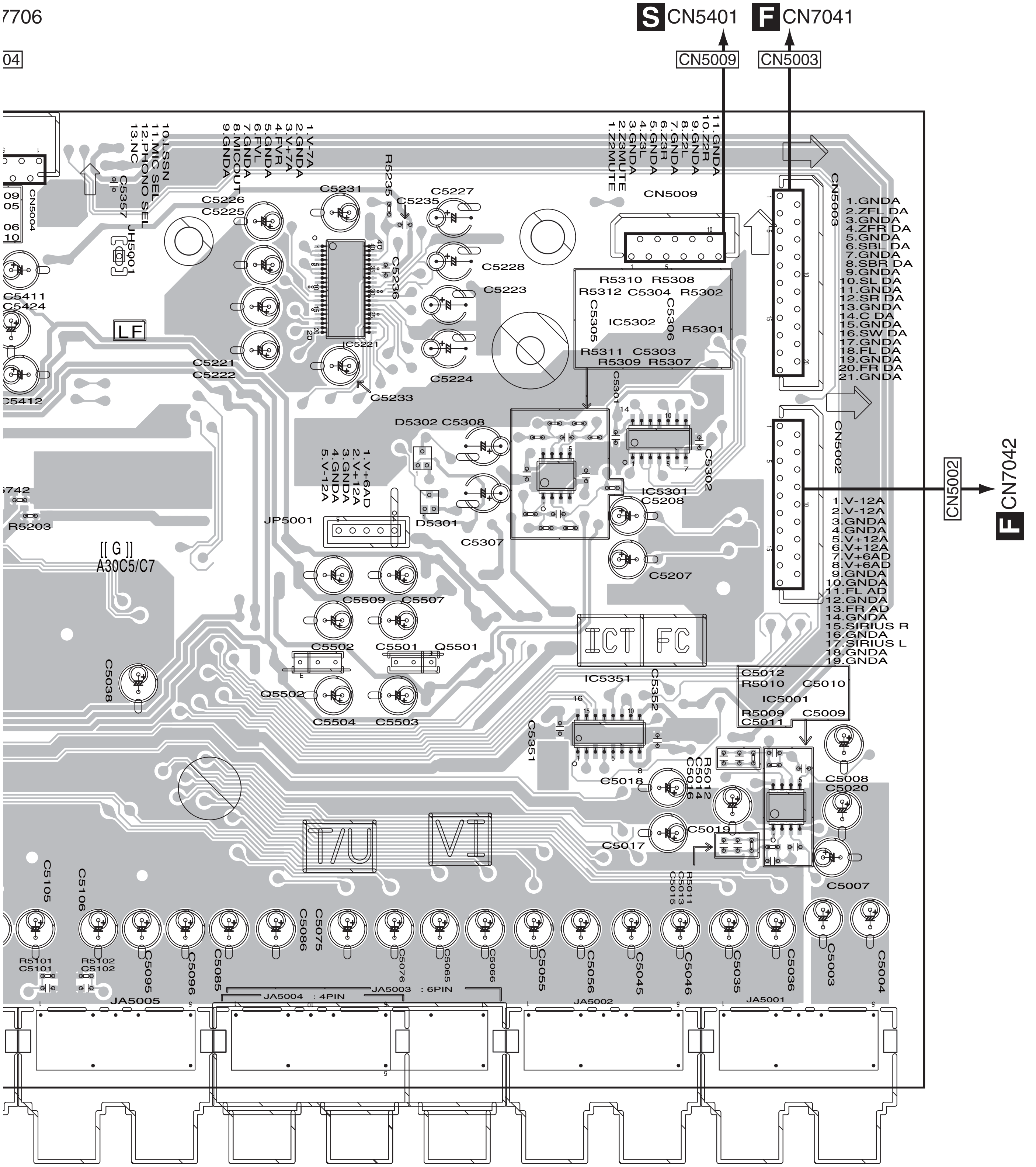

Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

11.1 AUDIO ASSY

SIDE A


N CN6952
CN5006
I CN7707
CN5005
I CN7706
CN5004
A AUDIO ASSY
IC Q
IC5282
IC5401
Q5453
Q5451
IC5302
IC5221
Q5401
Q5402
IC5301
IC5651
Q5501
IC5351
IC5255
IC5001
Q5502
Q5269
Q5651
I CN7705
CN5007
To TUNER
CN5008
21.AMUTE
20.SBMUTE
19.GNDA
18.FR OUT
17.GNDA
16.FL OUT
15.GNDA
14.SW OUT
13.GNDA
12.C OUT
11.GNDA
10.SR OUT
9.GNDA
8.SL OUT
7.GNDA
6.SBR OUT
5.GNDA
4.SBL OUT
3.GNDA
2.GNDCH
1.GNDCH
9.VOLCK
10.GNDD
8.VOLDT
7.ZVOLCK
6.ZVOLDT
5.Z2MUTE
4.Z2MUTE
3.SBMUTE
Z3MUTE
2.AMUTE
1.HPRY
18.GNDRY
14.HPL
GNDHP
16.HPR
17.GNDHP
11.V+12RY
12.GNDRY
1.V+5.6U
2.GNDU
3.RDSRST
4.RDSCK
5.RDSDT
6.TDO
7.TCLK
8.TDI
9.TCE
1.TCE
2.TDI
3.TCLK
4.TDO
5.GNDT
6.TL
7.V+9T
8.TR
9.VSM
10.FMDET
11.GNDT
AUDIO ASS'Y
AWX9139
AWX9206
AWX9207
AWX9208
AWX
P C
RY5451
X5651
IC5651
IC5282
IC5401
IC5255
JA5009
JA5008
JA5007
JA5006
[[G]]
A30C5

SIDE A

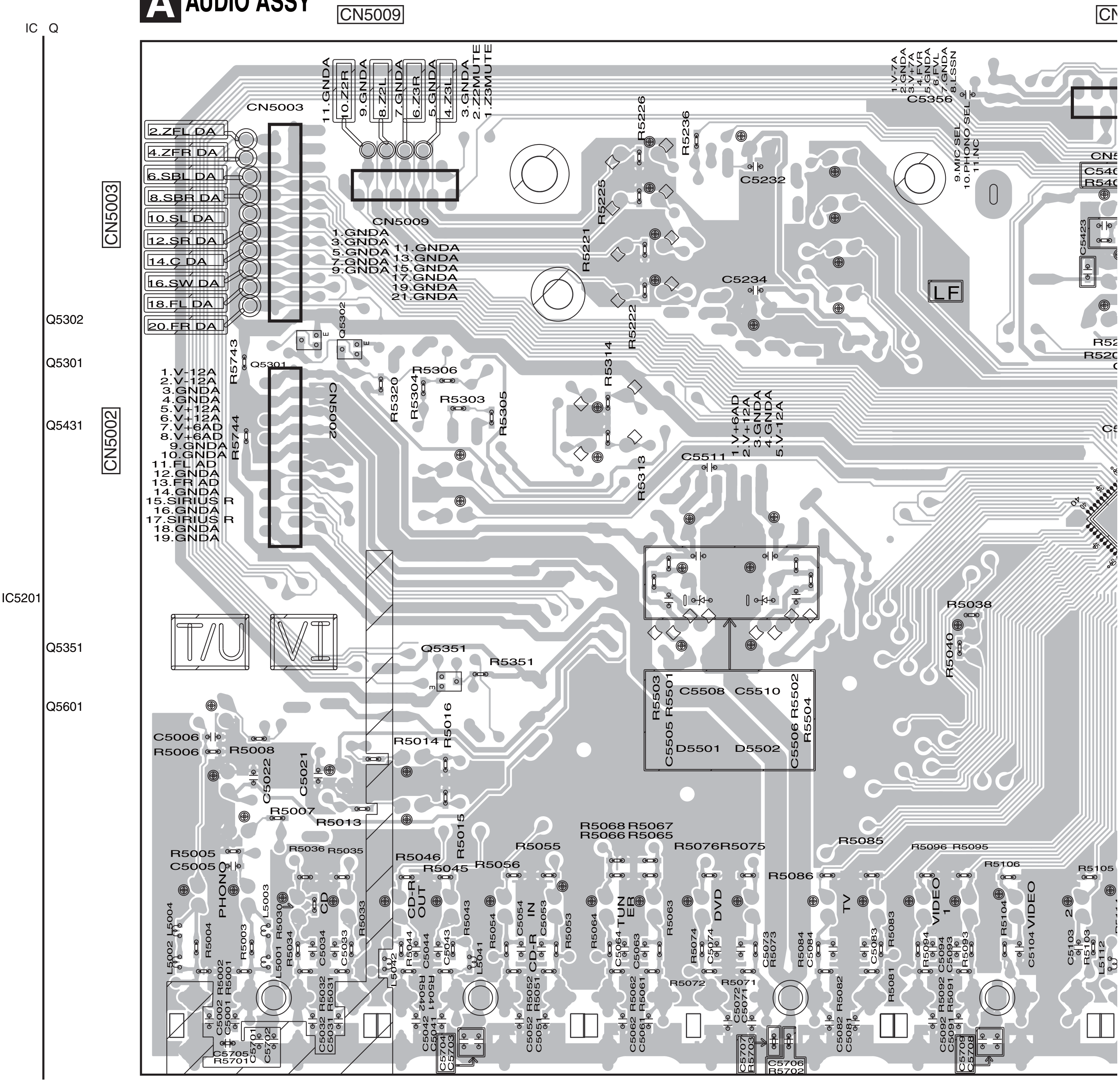


7706
04
S CN5401
F CN7041
CN5009
CN5003
CN5004
1.V-7A
2.GNDA
3.V+7A
4.FVR
5.GNDA
6.FVL
7.GNDA
8.MICOUT
9.GNDA
10.LSSN
11.MIC SEL
12.PHONO SEL
13.NC
C5357
JH5001
R5235
C5231
C5227
C5235
C5226
C5225
C5236
C5228
C5223
C5221
C5222
IC5221
C5233
C5224
C5411
C5424
C5412
LF
1.Z2MUTE
2.Z3MUTE
3.GNDA
4.Z3L
5.GNDA
6.Z3R
7.GNDA
8.Z2L
9.GNDA
10.Z2R
11.GNDA
CN5009
R5310 R5308
R5312 C5304 R5302
C5305
C5306
IC5302
R5301
R5311 C5303
R5309 R5307
C5301
1.GNDA
2.ZFL DA
3.GNDA
4.ZFR DA
5.GNDA
6.SBL DA
7.GNDA
8.SBR DA
9.GNDA
10.SL DA
11.GNDA
12.SR DA
13.GNDA
14.C DA
15.GNDA
16.SW DA
17.GNDA
18.FL DA
19.GNDA
20.FR DA
21.GNDA
D5302 C5308
1.V+6AD
2.V+12A
3.GNDA
4.GNDA
5.V-12A
JP5001
D5301
C5307
IC5301
C5208
C5302
C5207
CN5002
CN5002
F CN7042
1.V-12A
2.V-12A
3.GNDA
4.GNDA
5.V+12A
6.V+12A
7.V+6AD
8.V+6AD
9.GNDA
10.GNDA
11.FL AD
12.GNDA
13.FR AD
14.GNDA
15.SIRIUS R
16.GNDA
17.SIRIUS L
18.GNDA
19.GNDA
C5742
R5203
[[G]]
A30C5/C7
C5509 C5507
C5502 C5501 Q5501
Q5502
C5504 C5503
C5038
ICT FC
IC5351
C5352
C5351
C5012
R5010 C5010
IC5001
R5009 C5009
C5011
C5018
R5012
C5014
C5016
C5008
C5020
C5019
C5017
R5011
C5013
C5015
C5007
T/U
VI
C5105
C5106
C5086
C5075
R5101
C5101
R5102
C5102
C5095
C5096
C5085
C5076
C5065
C5066
C5055
C5056
C5045
C5046
C5035
C5036
C5003
C5004
JA5005
JA5004 : 4PIN
JA5003 : 6PIN
JA5002
JA5001

(ANP7650-C)

SIDE B

A AUDIO ASSY


CN5009
IC
Q
Q5302
Q5301
Q5431
IC5201
Q5351
Q5601
CN5003
CN5002
2.ZFL DA
4.ZFR DA
6.SBL DA
8.SBR DA
10.SL DA
12.SR DA
14.C DA
16.SW DA
18.FL DA
20.FR DA
11.GNDA
10.Z2R
9.GNDA
8.Z2L
7.GNDA
6.Z3R
5.GNDA
4.Z3L
3.GNDA
2.Z2MUTE
1.Z3MUTE
1.GNDA
3.GNDA
5.GNDA
7.GNDA
9.GNDA
11.GNDA
13.GNDA
15.GNDA
17.GNDA
19.GNDA
21.GNDA
1.V-12A
2.V-12A
3.GNDA
4.GNDA
5.V+12A
6.V+12A
7.V+6AD
8.V+6AD
9.GNDA
10.GNDA
11.FL AD
12.GNDA
13.FR AD
14.GNDA
15.SIRIUS R
16.GNDA
17.SIRIUS R
18.GNDA
19.GNDA
1.V-7A
2.GNDA
3.V+7A
4.FVR
5.GNDA
6.FVL
7.GNDA
8.LSSN
9.MIC SEL
10.PHONO SEL
11.NC
C5356
R5226
R5236
C5232
R5225
R5221
C5234
R5222
LF
R5743
R5744
Q5301
Q5302
R5306
R5320
R5304
R5303
R5305
R5314
R5313
1.V+6AD
2.V+12A
3.GNDA
4.GNDA
5.V-12A
C5511
C5423
R5038
R5040
T/U
VI
Q5351
R5351
R5503
R5501
C5508
C5510
R5502
R5504
C5505
D5501
D5502
C5506
C5006
R5006
R5008
C5021
C5022
R5014
R5016
R5007
R5013
R5015
R5005
C5005
R5036
R5035
R5046
R5045
R5055
R5056
R5068
R5067
R5066
R5065
R5076
R5075
R5085
R5086
R5096
R5095
R5106
R5105
PHONO
CD
CD-R OUT
CD-R IN
TUNER
DVD
TV
VIDEO 1
VIDEO 2
L5002
L5004
R5004
R5003
L5003
R5030
L5001
R5034
C5034
C5033
R5033
C5002
C5001
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R5001
C5032
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C5705
R5701
C5701
C5702
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R5702
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C5094
C5093
R5093
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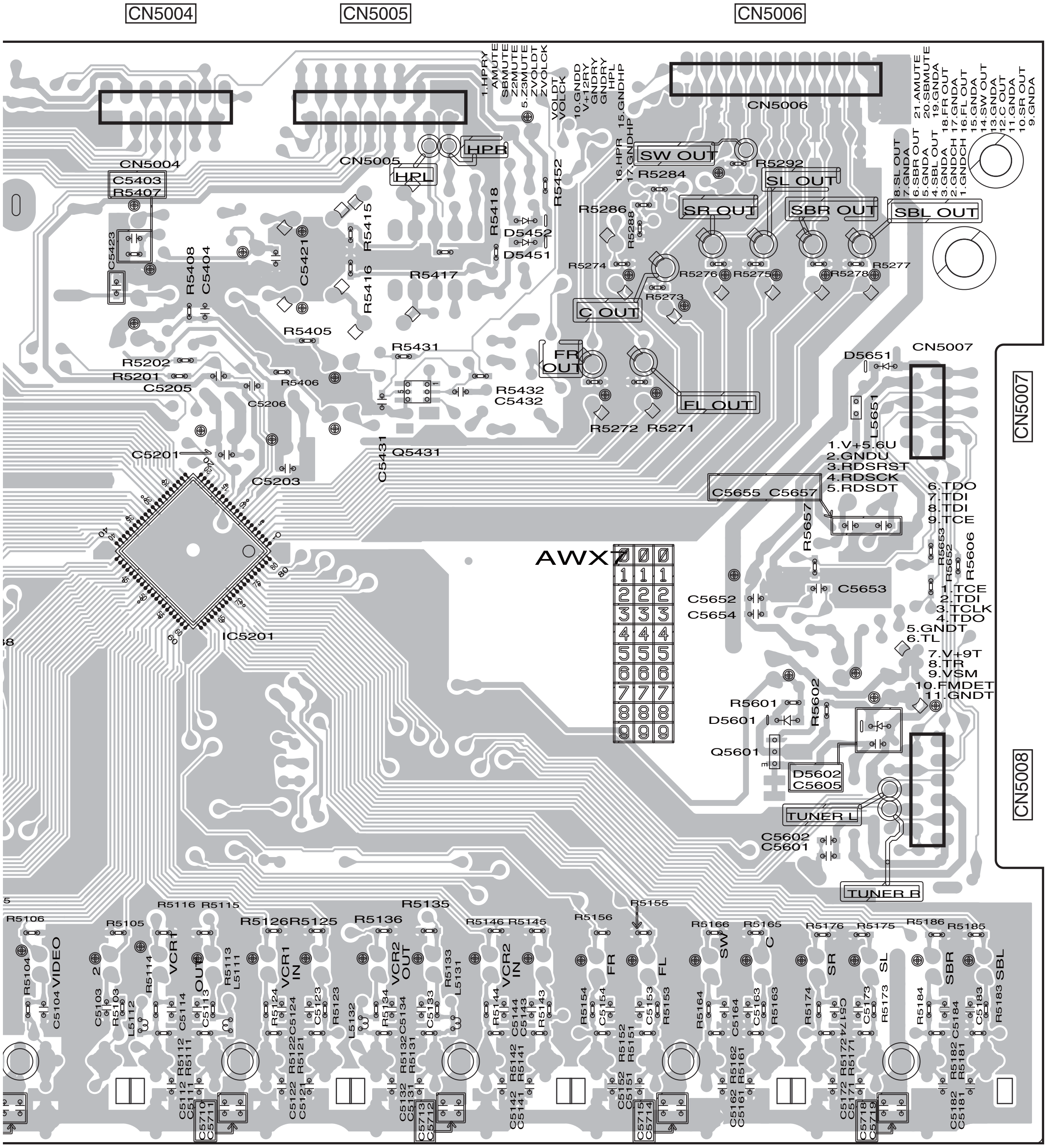
R5103
L5112

SIDE B


CN5004
CN5005
CN5006
1.HPRY
AMUTE
SBMUTE
Z2MUTE
5.Z3MUTE
ZVOLDT
ZVOLCK
VOLDT
VOLCK
10.GNDD
V+12RY
GNDRY
GNDHP
HPL
15.GNDHP
16.HPR
17.GNDHP
21.AMUTE
20.SBMUTE
19.GNDA
18.FR OUT
17.GNDA
16.FL OUT
15.GNDA
14.SW OUT
13.GNDA
12.C OUT
11.GNDA
10.SR OUT
9.GNDA
8.SL OUT
7.GNDA
6.SBR OUT
5.GNDA
4.SBL OUT
3.GNDA
2.GNDCH
1.GNDCH
HPR
HPL
C5403
R5407
C5423
R5408
C5404
C5421
R5415
R5416
R5417
R5418
R5452
D5452
D5451
SW OUT
R5292
R5284
SL OUT
R5286
R5288
SR OUT
SBR OUT
SBL OUT
R5274
R5276
R5275
R5278
R5277
R5273
C OUT
R5405
R5431
R5202
R5201
C5205
R5406
C5206
FR OUT
R5432
C5432
FL OUT
R5272
R5271
C5201
C5203
C5431
Q5431
IC5201
D5651
CN5007
L5651
1.V+5.6U
2.GNDU
3.RDSRST
4.RDSCK
5.RDSDT
6.TDO
7.TDI
8.TDI
9.TCE
C5655 C5657
R5657
R5653
R5652
R5606
1.TCE
2.TDI
3.TCLK
4.TDO
5.GNDT
6.TL
7.V+9T
8.TR
9.VSM
10.FMDET
11.GNDT
AWX7
0 0 0
1 1 1
2 2 2
3 3 3
4 4 4
5 5 5
6 6 6
7 7 7
8 8 8
9 9 9
C5652
C5654
C5653
R5601
R5602
D5601
Q5601
D5602
C5605
CN5008
TUNER L
TUNER R
C5602
C5601
R5106
R5105
R5116
R5115
R5126
R5125
R5136
R5135
R5146
R5145
R5156
R5155
R5166
R5165
R5176
R5175
R5186
R5185
R5104
VIDEO
2
VCR1
OUT
VCR1
IN
VCR2
OUT
VCR2
IN
FR
FL
SW
C
SR
SL
SBR
SBL
C5104
C5103
R5103
L5112
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C5113
R5113
L5111
R5124
C5124
C5123
R5123
L5132
R5134
C5134
C5133
R5133
L5131
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C5144
C5143
R5143
R5154
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R5164
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C5163
R5163
R5174
C5174
C5173
R5173
R5184
C5184
C5183
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C5111
R5122
R5121
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R5132
R5131
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R5141
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R5152
R5151
C5152
C5151
R5162
R5161
C5162
C5161
R5172
R5171
C5172
C5171
R5182
R5181
C5182
C5181
C5710
C5711
C5712
C5713
C5714
C5715
C5716
C5718
C5719

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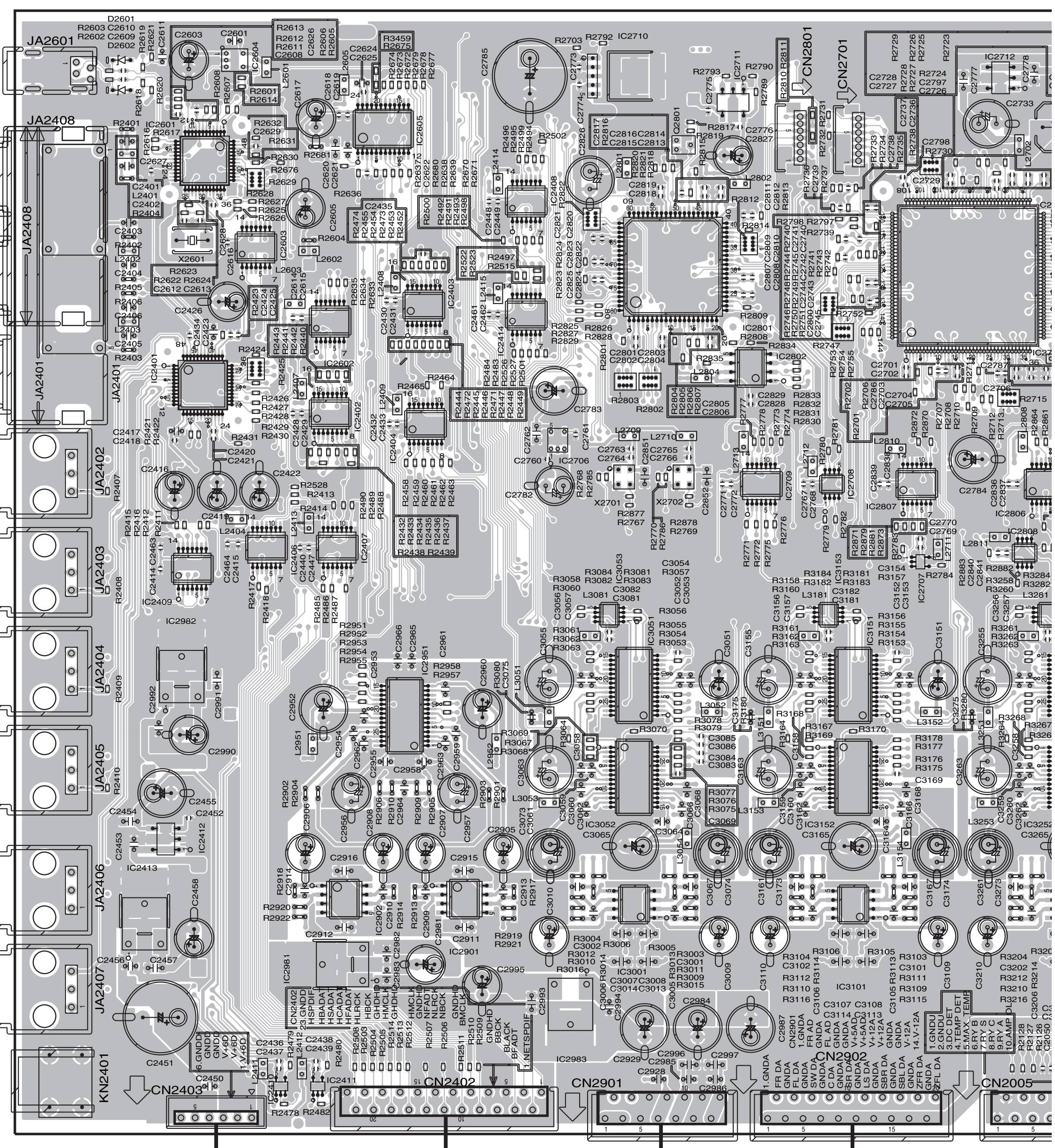
A

11.2 D-MOTHER ASSY

SIDE A

B D-MOTHER ASSY

IC Q
IC2710
IC2604 IC2712
IC2711
IC2201
IC2713 Q2008
IC2605 IC2601 Q2801
IC2011
IC2703
IC2408 IC2704
IC2202 Q2007
IC2211
IC2603
IC2702
IC2203
IC2403
IC2801
IC2414 IC2209 IC2204
IC2401 IC2701 IC2705
IC2802 IC2602 IC2714
IC2212 IC2210
IC2402 IC2006
IC2213
Q2006
IC2404
IC2706 Q2005
IC2708
IC2709 IC2805 IC2207
IC2206
IC2804 IC2205
IC2807 IC2803 IC2806
IC2808
IC2407
IC2406 IC3153 IC3353
IC3253
IC3053 IC2707
IC2010
IC2409 IC2004
IC3051
IC2982 IC3351
IC3251
IC2001
IC3151
IC2951
IC2009
IC2003
IC3451
Q2203
Q2205
IC3152
IC3052 IC3252 IC3352
IC2412 IC2005
IC2208 IC2002
IC2413 IC2008 Q2209
IC2007
IC3401 Q2208
IC2902 Q2207
Q2210
Q2202
IC2901
IC2981
IC3001
IC3101 IC3201 IC3301
Q2201
IC2983
IC2410 IC2411


JA2601
JA2408
JA2401
JA2402
JA2403
JA2404
JA2405
JA2406
JA2407
KN2401
CN2403
CN2402
CN2901
CN2902
CN2005
CN2801
CN2701
IC2710
IC2712
IC2983

CN2403 → F CN7009

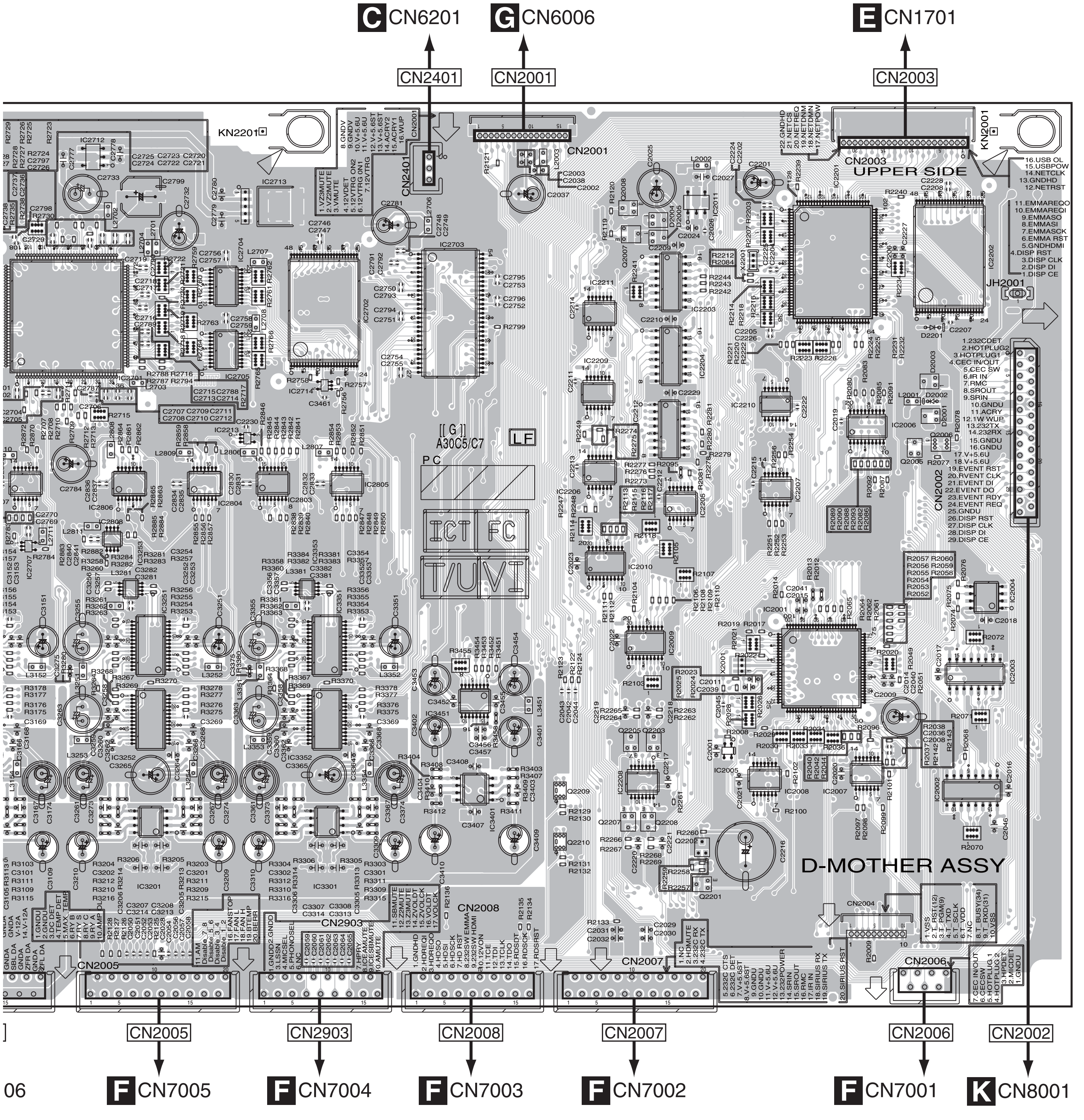
CN2402 → F CN7008

CN2901 → F CN7007

CN2902 → F CN7006

F

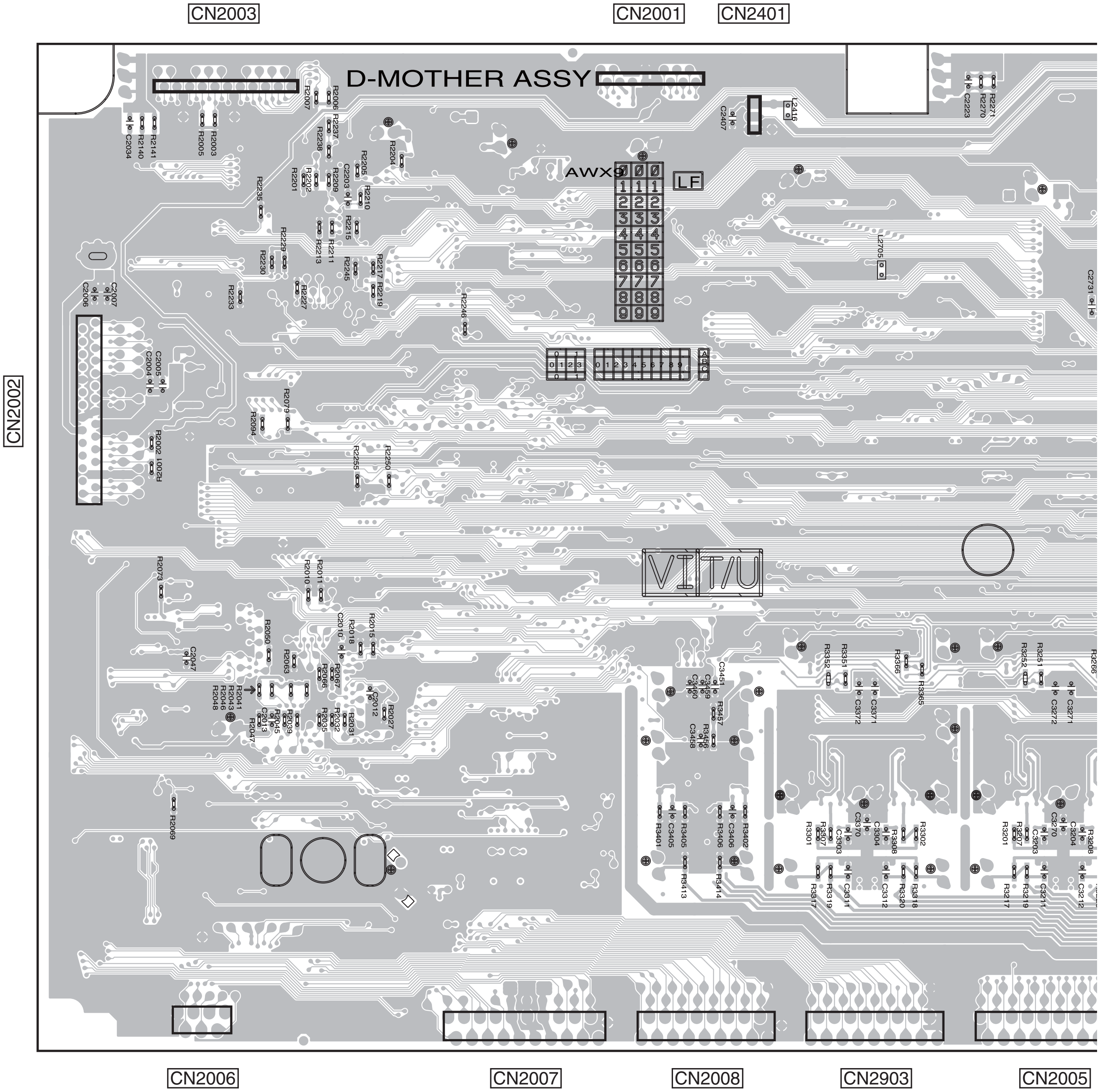
SIDE A


C CN6201
G CN6006
E CN1701
CN2401
CN2001
CN2003
KN2201
KN2001
UPPER SIDE
JH2001
[[G]]
A30C5/C7
LF
PC
ICT
FC
T/UV
D-MOTHER ASSY
CN2005
CN2903
CN2008
CN2007
CN2006
CN2002
CN2004
F CN7005
F CN7004
F CN7003
F CN7002
F CN7001
K CN8001
06

(ANP7649-B)

SIDE B

B D-MOTHER ASSY


CN2003
CN2001
CN2401
D-MOTHER ASSY
AWX9
LF
CN2002
VI T/U
CN2006
CN2007
CN2008
CN2903
CN2005
R2007
R2006
R2237
R2238
R2204
R2205
R2210
R2209
C2203
R2201
R2202
R2235
R2229
R2230
R2213
R2211
R2215
R2245
R2217
R2219
R2227
R2233
R2246
R2141
R2140
C2034
R2003
R2005
C2007
C2006
C2005
C2004
R2079
R2094
R2002
R2001
R2255
R2250
R2073
R2011
R2010
R2015
R2018
C2016
R2050
R2063
C2047
R2069
C2407
R2416
C2223
R2270
R2271
L2705
C2731
C3451
R3457
R3456
C3458
R3352
R3351
R3366
R3365
C3371
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R3266
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C3272
R3401
C3405
R3405
R3406
C3406
R3402
R3413
R3414
R3301
R3307
C3370
C3304
R3308
R3302
R3317
R3319
C3311
C3312
R3320
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C3204
R3208
R3217
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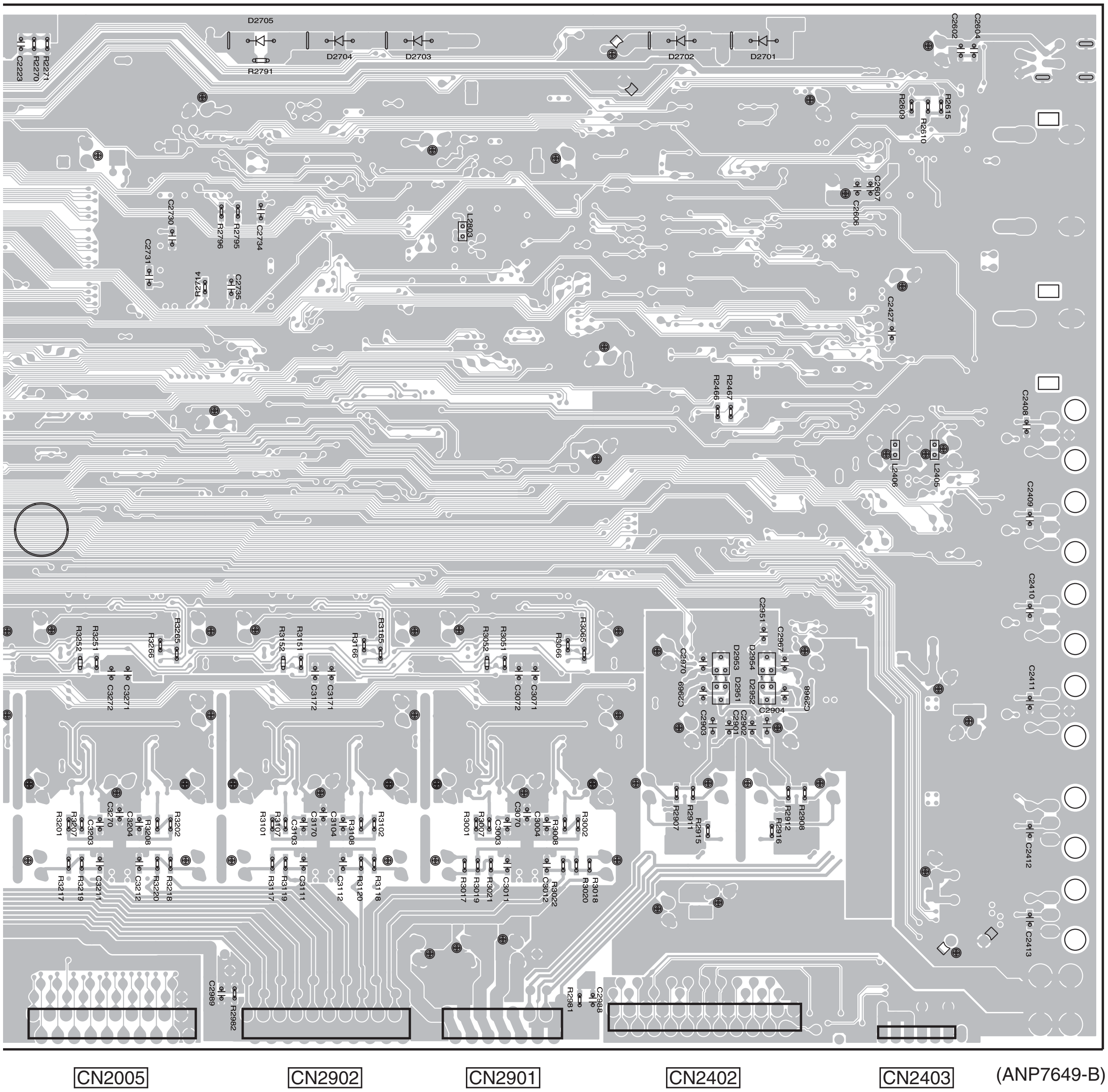
C3211
C3212

SIDE B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D2704
D2703
D2702
D2701
C2602
C2604
R2271
R2270
C2223
R2609
R2615
R2610
C2607
C2606
L2803
C2730
R2796
R2795
C2734
C2731
R2714
C2735
C2427
R2467
R2466
C2408
L2406
L2405
C2409
C2410
C2411
C2412
C2413
R3265
R3251
R3252
R3266
C3271
C3272
R3165
R3151
R3152
R3166
C3171
C3172
R3065
R3051
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C2969
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D2954
D2951
D2952
C2968
C2903
C2902
C2901
C2904
R3201
R3207
C3270
C3203
C3204
R3208
R3202
R3217
R3219
C3211
C3212
R3220
R3218
R3101
R3107
C3170
C3103
C3104
R3108
R3102
R3117
R3119
C3111
C3112
R3120
R3118
R3001
R3007
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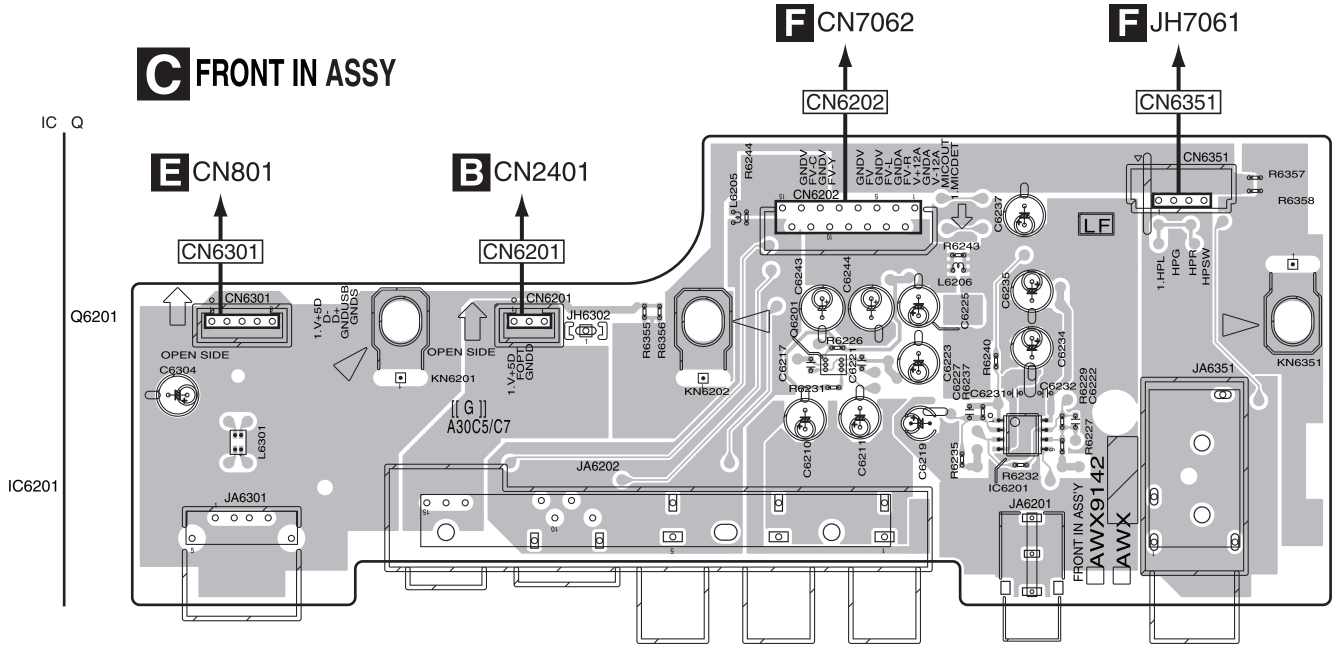
C3003
C3004
R3008
R3002
R3017
R3019
R3021
C3011
C3012
R3022
R3018
R3020
R2907
R2911
R2915
R2908
R2912
R2916
C2989
R2982
R2981
C2988
CN2005
CN2902
CN2901
CN2402
CN2403

(ANP7649-B)

11.3 FRONT IN ASSY

SIDE A **SIDE A**


C FRONT IN ASSY
F CN7062
F JH7061
CN6202
CN6351
E CN801
B CN2401
CN6301
CN6201
IC Q
Q6201
IC6201
OPEN SIDE
C6304
L6301
JA6301
KN6201
1.V+5D
FOPT
GNDD
JH6302
[[G]]
A30C5/C7
JA6202
KN6202
R6355
R6356
R6244
L6205
GNDV
FV-C
GNDV
FV-Y
GNDV
FV
GNDV
FV-L
GNDA
FV-R
V+12A
GNDA
V-12A
MICOUT
1.MICDET
C6237
R6243
L6206
C6243
C6244
C6225
C6235
C6234
Q6201
R6226
C6217
C6221
R6231
C6223
C6227
R6237
R6240
C6231
C6232
R6229
C6222
C6210
C6211
C6219
R6235
R6232
IC6201
R6227
JA6201
FRONT IN ASS'Y
AWX9142
AWX
LF
R6357
R6358
1.HPL
HPG
HPR
HPSW
KN6351
JA6351

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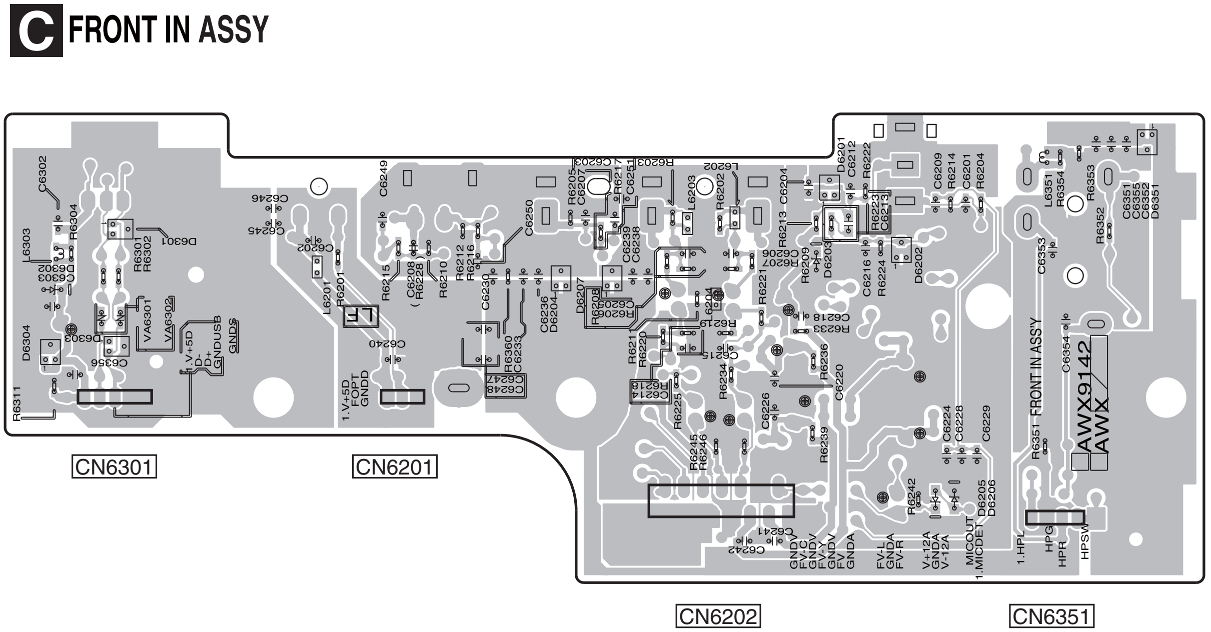
SIDE B **SIDE B**


C FRONT IN ASSY
C6302
R6304
C6303
D6301
R6301
R6302
D6303
VA6301
VA6302
D6304
C6356
R6311
1.V+5D
D-
D+
GNDUSB
GNDS
C6246
C6245
C6202
L6201
R6201
LF
C6240
1.V+5D
FOPT
GNDD
C6249
R6215
C6208
R6228
R6212
R6216
R6210
C6250
C6230
R6260
C6233
C6247
C6248
C6236
D6204
D6207
R6208
C6206
R6205
C6207
R6217
C6251
C6239
C6238
R6203
L6203
L6202
R6202
C6204
R6213
R6206
R6207
R6209
D6203
R6221
C6205
C6218
R6233
R6219
C6215
R6211
R6220
R6218
R6214
C6214
R6225
R6234
R6236
C6220
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R6245
R6246
R6239
D6201
C6212
R6222
R6223
C6213
C6209
R6214
C6201
R6204
C6216
R6224
D6202
C6224
C6228
C6229
R6242
D6205
D6206
C6241
C6242
GNDV
FV-C
GNDV
FV-Y
GNDV
FV
GNDA
FV-L
GNDA
FV-R
V+12A
GNDA
V-12A
MICOUT
1.MICDET
L6351
R6354
R6353
R6352
C6351
C6355
C6352
D6351
C6353
C6354
FRONT IN ASS'Y
AWX9142
AWX
R6351
1.HPL
HPG
HPR
HPSW
CN6301
CN6201
CN6202
CN6351

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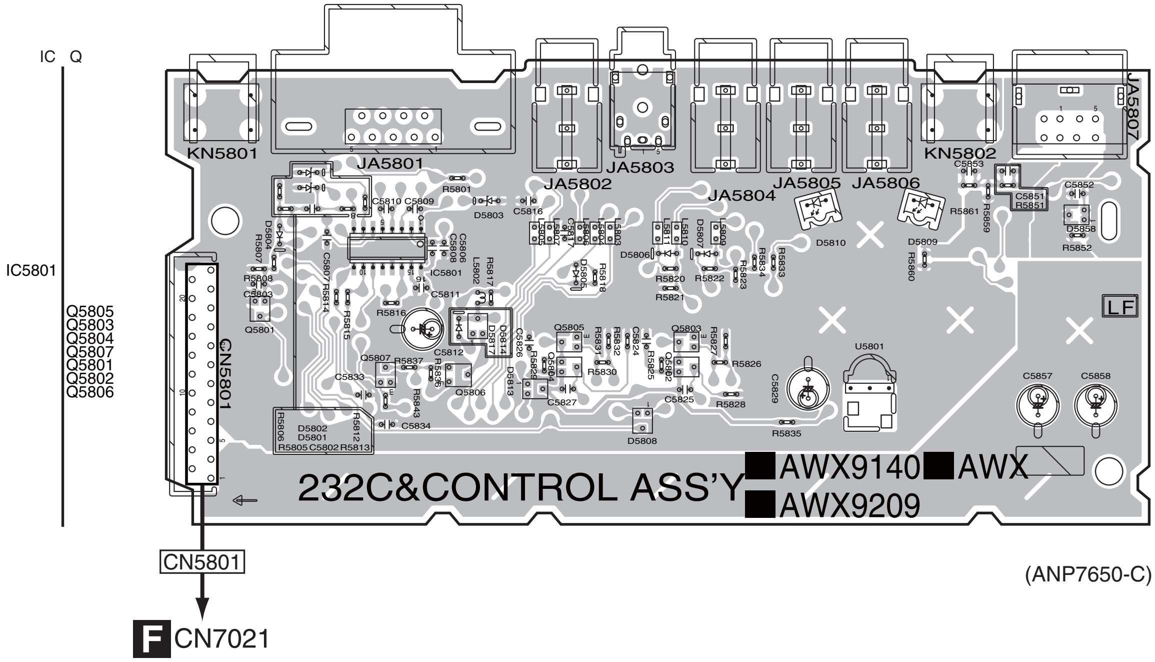
11.4 232C & CONTROL ASSY

SIDE A **SIDE A**

D 232C&CONTROL ASSY


IC Q
IC5801
Q5805
Q5803
Q5804
Q5807
Q5801
Q5802
Q5806
KN5801
JA5801
JA5802
JA5803
JA5804
JA5805
JA5806
KN5802
JA5807
CN5801
IC5801
U5801
LF
232C&CONTROL ASS'Y
AWX9140
AWX
AWX9209
CN5801
F CN7021

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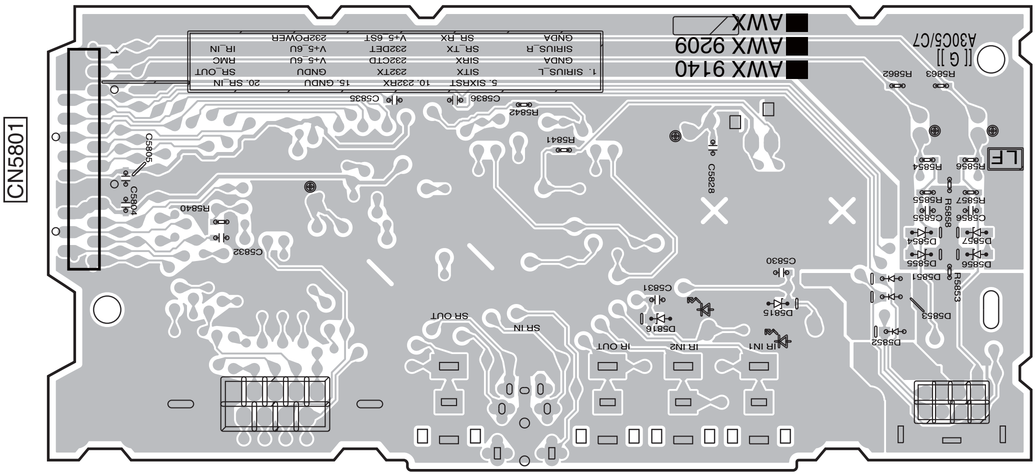
SIDE B **SIDE B**

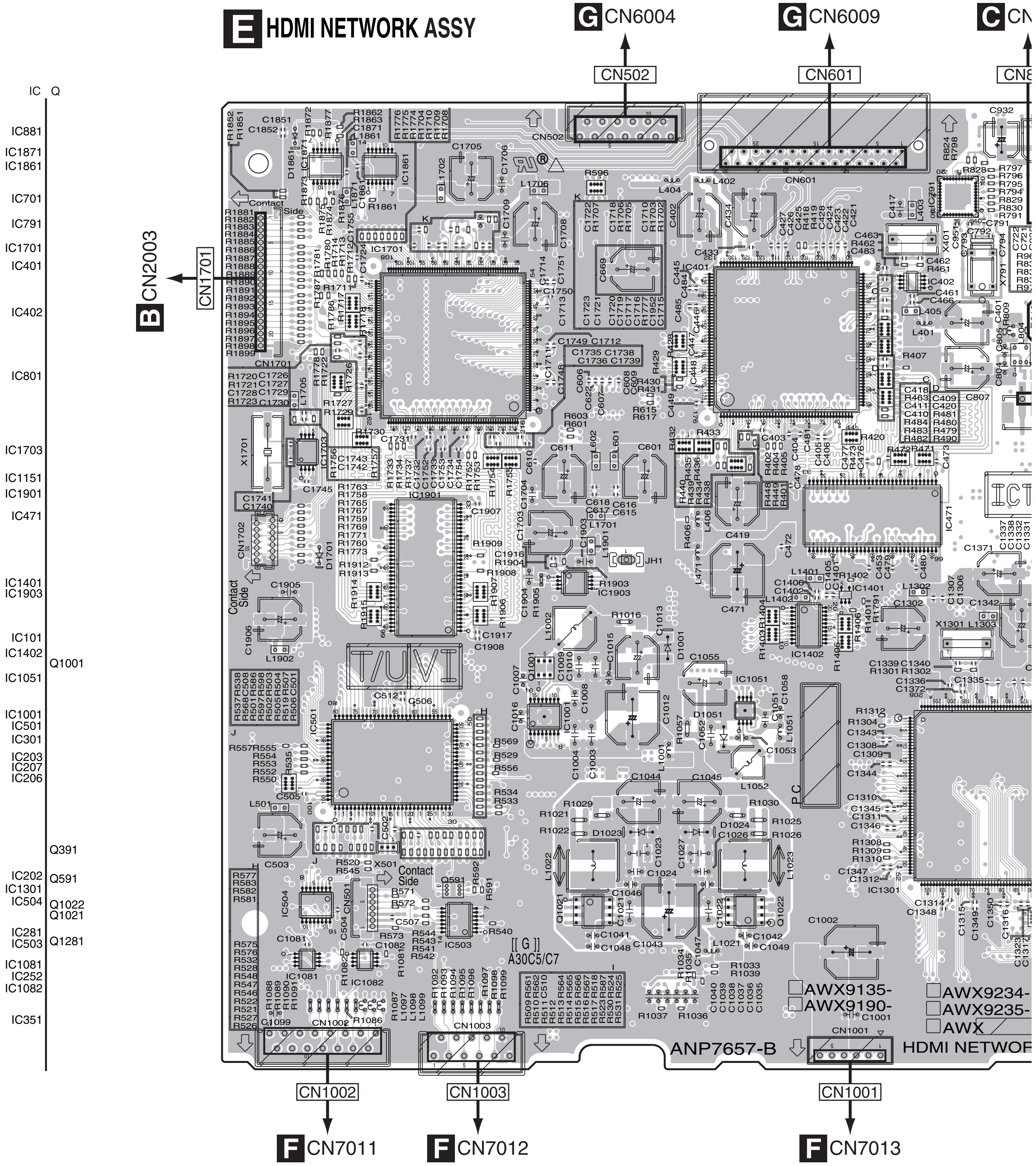
D 232C&CONTROL ASSY


CN5801
AWX
AWX 9209
AWX 9140
A30C5/C7
[[G]]
LF
1. SIRIUS_L
5. SIXRST
10. 232RX
15. GNDU
20. SR_IN
GNDA
SIRIUS_R
SR_RX
SR_TX
SIRX
SITX
V+5_6ST
232DET
232CTD
232TX
232POWER
V+5_6U
GNDU
IR_IN
RMC
SR_OUT
SR OUT
SR IN
IR OUT
IR IN2
IR IN1

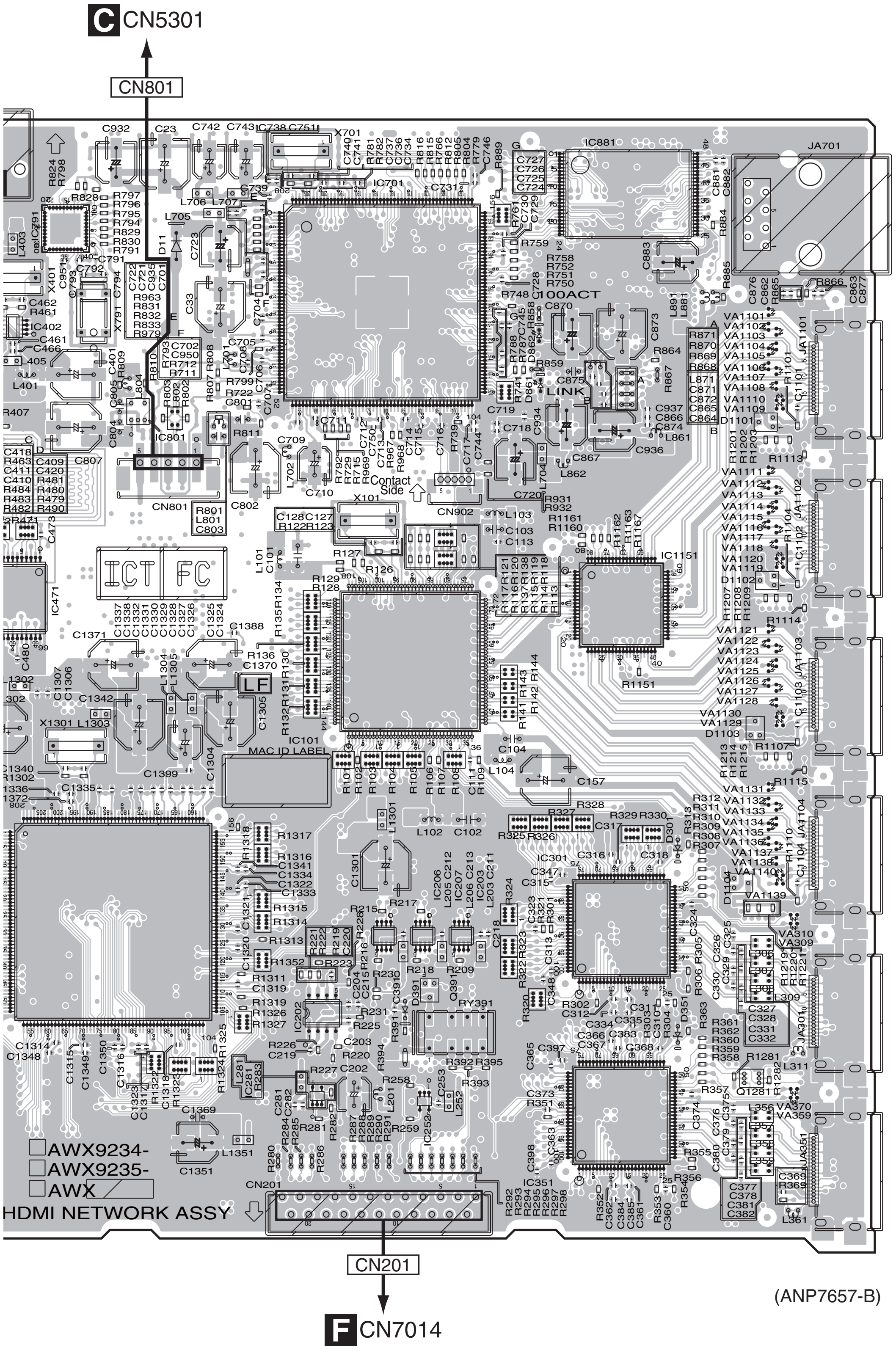
(ANP7650-C)

11.5 HDMI NETWORK ASSY

SIDE A


E HDMI NETWORK ASSY
G CN6004
CN502
G CN6009
CN601
C CN
CN8
B CN2003
CN1701
F CN7011
CN1002
F CN7012
CN1003
F CN7013
CN1001
IC Q
IC881
IC1871
IC1861
IC701
IC791
IC1701
IC401
IC402
IC801
IC1703
IC1151
IC1901
IC471
IC1401
IC1903
IC101
IC1402
Q1001
IC1051
IC1001
IC501
IC301
IC203
IC207
IC206
Q391
IC202
Q591
IC1301
IC504
Q1022
Q1021
IC281
IC503
Q1281
IC1081
IC252
IC1082
IC351
Contact Side
[[G]]
A30C5/C7
AWX9135-
AWX9190-
AWX9234-
AWX9235-
AWX
ANP7657-B
HDMI NETWOR

SIDE A


C CN5301
CN801
CN801
IC701
IC881
JA701
100ACT
LINK
Contact Side
CN902
IC1151
IC101
MAC ID LABEL
ICT
FC
LF
IC301
IC351
RY391
JA1101
JA1102
JA1103
JA1104
JA301
JA351
AWX9234-
AWX9235-
AWX
HDMI NETWORK ASSY
CN201
CN201
F CN7014

(ANP7657-B)

A
B
C
D
E
F

E

SIDE B

A

E HDMI NETWORK ASSY

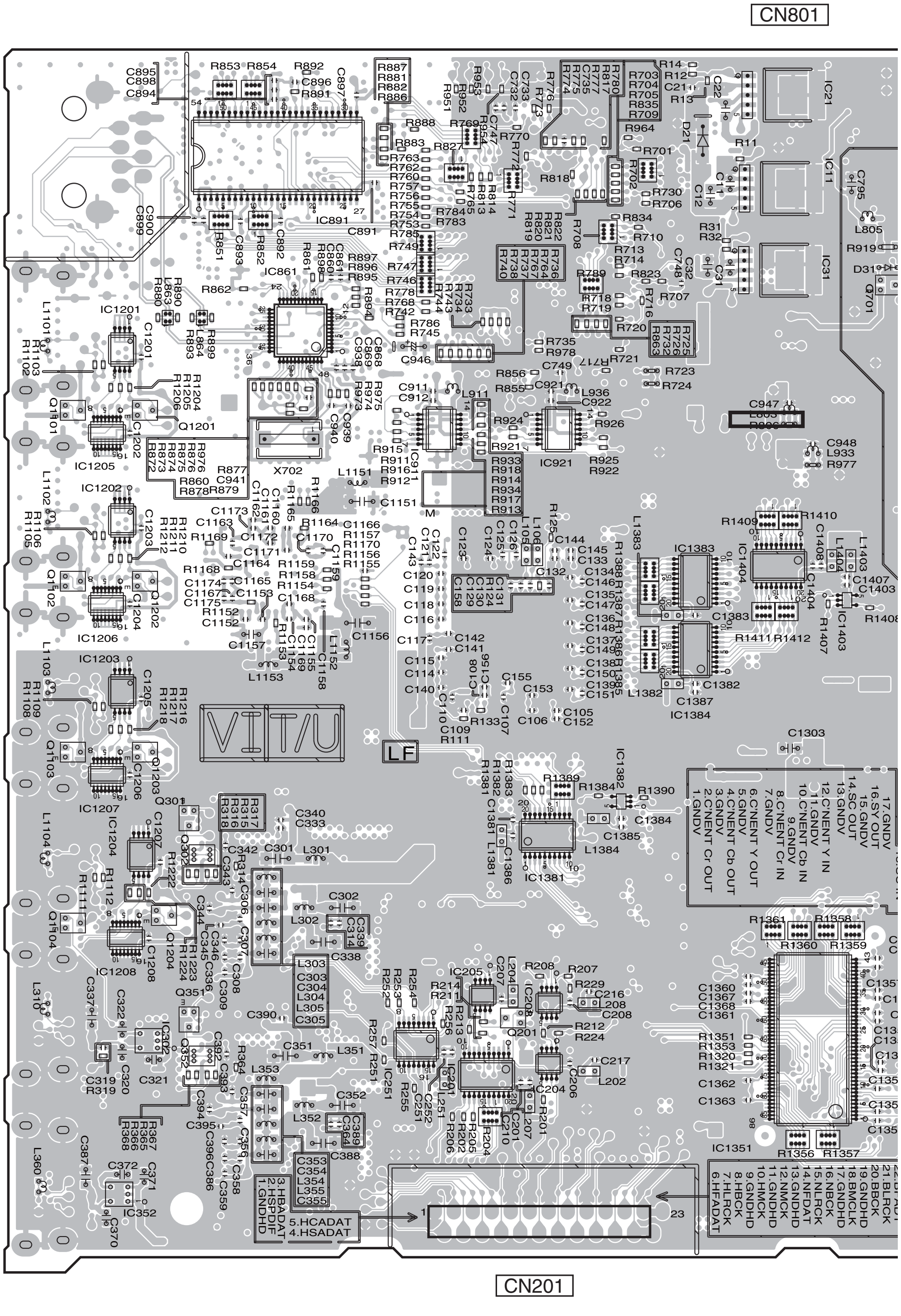
IC	Q
IC21	
	Q1831 Q1801
	Q1821 Q1811
	Q671 Q651
IC11	Q641
IC1702	
IC891	
	Q631
IC861 IC31	Q661 Q681
	Q702
IC1201	Q701
IC1951	
IC601	
	Q1101
	Q1201
IC921	
IC911 IC1205	
IC1202	
IC1383	
IC1404	
IC472	Q1102
	Q1202
IC1206 IC1403	
IC1203	
IC452	
IC1384	
IC502	
IC1071	Q1103
IC1382	Q1203
IC1902	
IC1207	Q301
IC1204	
IC505	Q302
IC1381	
	Q1104
IC1072	Q1204
IC1208 IC205	
IC208	Q351
	Q201
IC302	Q352
IC201	
IC204	
IC251	
IC1021	
IC1351	
IC352	

B

C

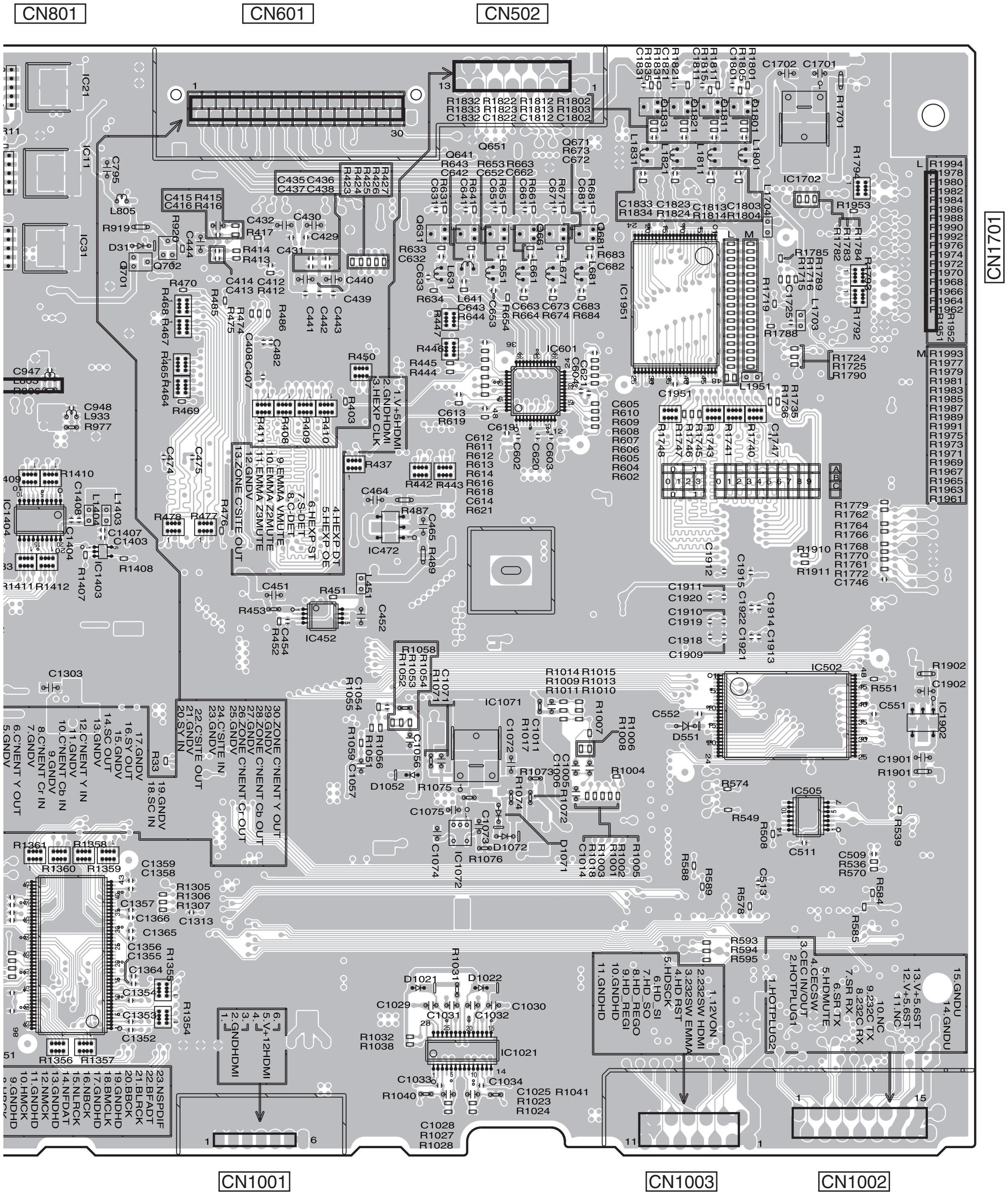
D

E


CN801
IC21
IC11
IC31
IC891
IC861
IC1201
IC1205
IC1202
IC1206
IC1203
IC1207
IC1204
IC1208
IC921
IC1383
IC1404
IC1403
IC1384
IC1382
IC1381
IC1351
IC205
IC204
IC251
IC302
IC352
X702
VIT/U
LF
17.GNDV
16.SY OUT
14.SC GNDV
13.GNDV
12.C.NENT Y IN
11.GNDV
10.C.NENT Cb IN
9.GNDV
8.C.NENT Cr IN
7.GNDV
6.C.NENT Y OUT
5.GNDV
4.C.NENT Cb OUT
3.GNDV
2.C.NENT Cr OUT
1.GNDV
21.BLRCK
20.BBCK
19.GNDHD
18.BMCK
17.GNDHD
16.NBCK
15.NLRCK
14.NFDAT
13.GNDHD
12.NMCK
11.GNDHD
10.HMCK
9.GNDHD
8.HBCK
7.HLRCK
6.HFADAT
3.HBADAT
2.HSPDIF
1.GNDHD
5.HCADAT
4.HSADAT
1
23
CN201

F

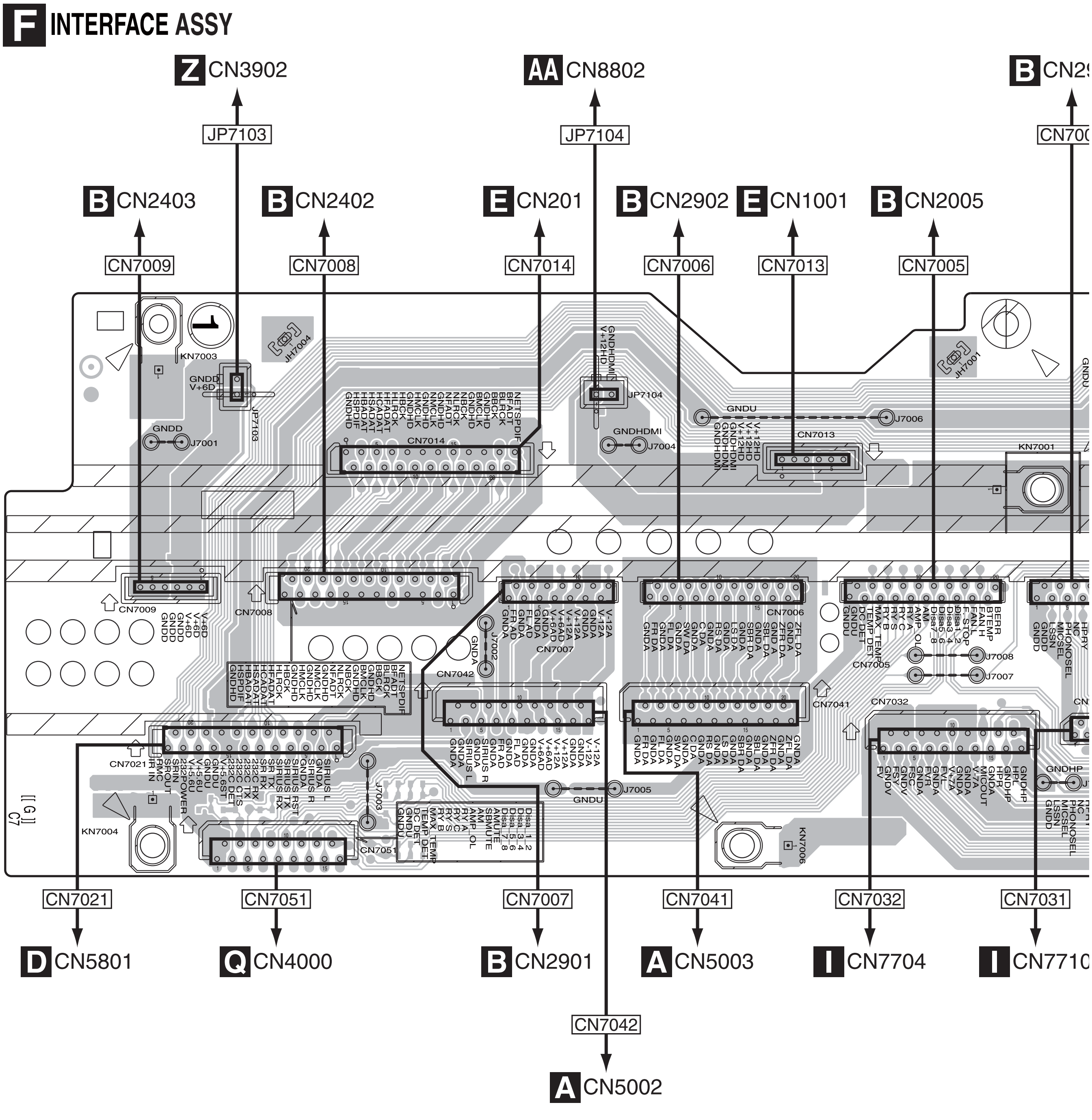
SIDE B


CN801
CN601
CN502
CN1701
CN1001
CN1003
CN1002
IC21
IC11
IC31
IC601
IC1951
IC1702
IC472
IC452
IC502
IC505
IC1902
IC1071
IC1021
IC1403
IC1404
1.V+5HDMI
2.GNDHDMI
3.HEXP CLK
4.HEXP DT
5.HEXP OE
6.HEXP ST
7.S-DET
8.C-DET
9.EMMA VMUTE
10.EMMA Z2MUTE
11.EMMA Z3MUTE
12.GNDV
13.ZONE C/SITE OUT
1.12VON
2.232SW HDMI
3.232SW EMMA
4.HD RST
5.HDSCK
6.HD_SI
7.HD_SO
8.HD_REGO
9.HD_REGI
10.GNDHD
11.GNDHD
1.HOTPLUG1
2.HOTPLUG2
3.CEC IN/OUT
4.CECSW
5.HDMUTE
6.SR TX
7.SR RX
8.232C RX
9.232C TX
10.NC
11.NC
12.V+5.6ST
13.V+5.6ST
14.GNDU
15.GNDU
1.V+12HDMI
2.GNDHDMI

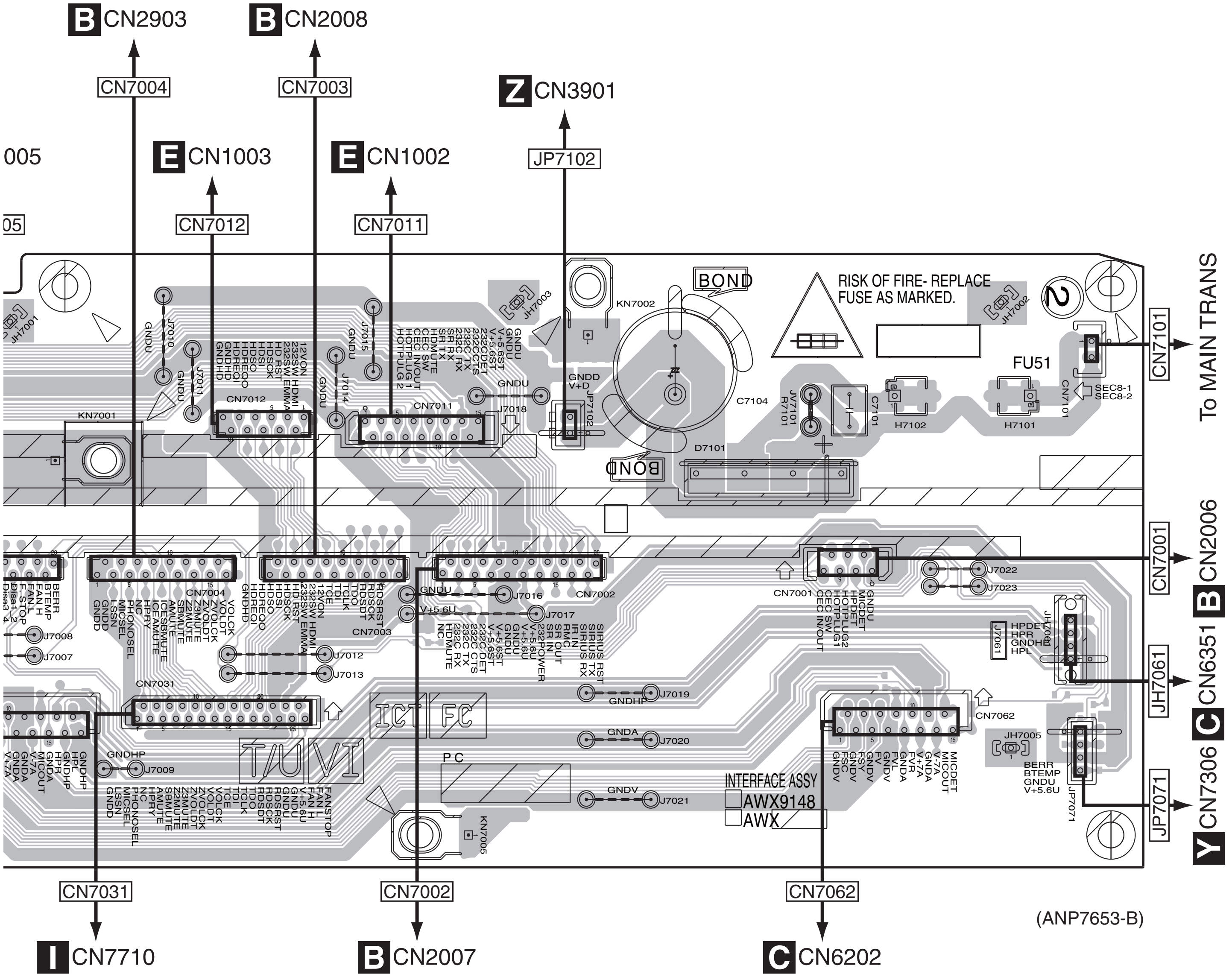
(ANP7657-B)

11.6 INTERFACE ASSY

SIDE A


F INTERFACE ASSY
Z CN3902
JP7103
AA CN8802
JP7104
B CN2
CN700
B CN2403
CN7009
B CN2402
CN7008
E CN201
CN7014
B CN2902
CN7006
E CN1001
CN7013
B CN2005
CN7005
KN7003
JH7004
JH7001
KN7001
J7001
J7004
J7006
J7002
J7003
J7005
J7007
J7008
CN7042
CN7007
CN7041
CN7032
CN7021
CN7051
KN7004
KN7006
GNDD
V+6D
GNDU
GNDHDMI
GNDA
GNDHP
CN7021
D CN5801
CN7051
Q CN4000
CN7007
B CN2901
CN7041
A CN5003
CN7032
I CN7704
CN7031
I CN7710
CN7042
A CN5002

SIDE A

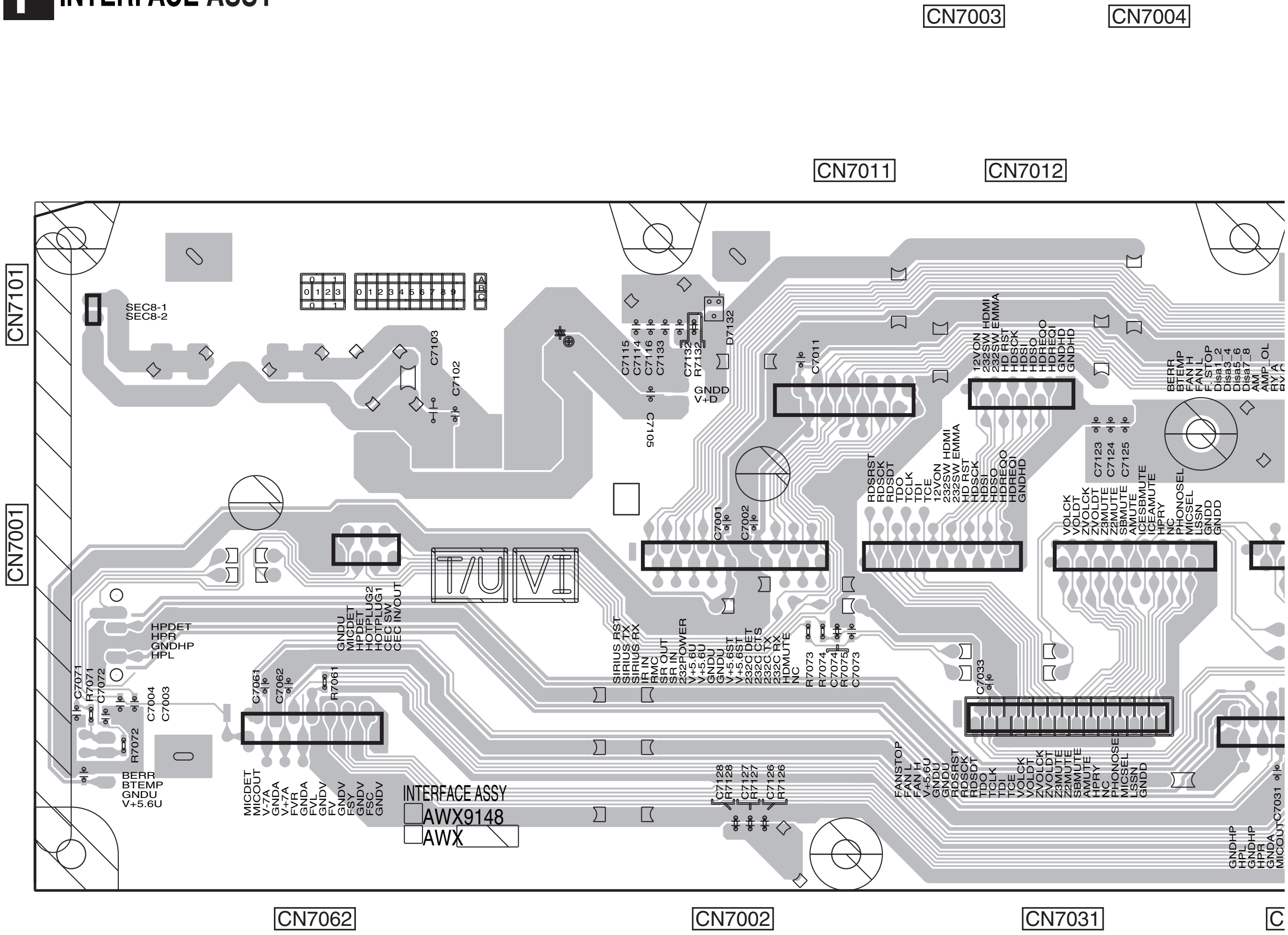

B CN2903
CN7004
B CN2008
CN7003
Z CN3901
JP7102
005
E CN1003
CN7012
E CN1002
CN7011
05
BOND
RISK OF FIRE- REPLACE
FUSE AS MARKED.
2
FU51
CN7101
To MAIN TRANS
KN7001
KN7002
C7104
D7101
H7102
H7101
CN7001
B CN2006
JH7061
C CN6351
JP7071
Y CN7306
CN7002
CN7031
CN7062
GNDA
GNDHP
GNDV
P C
INTERFACE ASSY
AWX9148
AWX
KN7005
CN7031
I CN7710
CN7002
B CN2007
CN7062
C CN6202
(ANP7653-B)

F

SIDE B

A

F INTERFACE ASSY


CN7003
CN7004
CN7011
CN7012
CN7101
CN7001
SEC8-1
SEC8-2
0 1
0 1 2 3
0 1
0 1 2 3 4 5 6 7 8 9
A
B
C
C7103
C7102
C7115
C7114
C7116
C7133
C7132
R7132
D7132
GNDD
V+D
C7105
C7011
12VON
232SW HDMI
232SW EMMA
HD RST
HDSCK
HDSI
HDSO
HDREQO
HDREQI
GNDHD
GNDHD
BERR
BTEMP
FAN H
FAN L
F_STOP
Disa1_2
Disa3_4
Disa5_6
Disa7_8
AM
AMP_OL
RY A
C7123
C7124
C7125
RDSRST
RDSCK
RDSDT
TDO
TCLK
TDI
TCE
12VON
232SW HDMI
232SW EMMA
HD RST
HDSCK
HDSI
HDSO
HDREQO
HDREQI
GNDHD
VOLCK
VOLDT
ZVOLCK
ZVOLDT
Z3MUTE
Z2MUTE
SBMUTE
AMUTE
ICESBMUTE
ICEAMUTE
HPRY
NC
PHONOSEL
MICSEL
LSSN
GNDD
GNDD
C7001
C7002
T/U
VI
HPDET
HPR
GNDHP
HPL
GNDU
MICDET
HPDET
HOTPLUG2
HOTPLUG1
CEC SW
CEC IN/OUT
SIRIUS RST
SIRIUS TX
SIRIUS RX
IR IN
RMC
SR OUT
SR IN
232POWER
V+5.6U
V+5.6U
GNDU
GNDU
V+5.6ST
V+5.6ST
232C DET
232C CTS
232C TX
232C RX
HDMUTE
NC
R7073
R7074
C7074
R7075
C7073
C7033
C7071
R7071
C7072
C7004
C7003
R7072
C7061
C7062
R7061
BERR
BTEMP
GNDU
V+5.6U
MICDET
MICOUT
V-7A
GNDA
V+7A
FVR
GNDA
FVL
GNDV
FV
GNDV
FSY
GNDV
FSC
GNDV
INTERFACE ASSY
☐AWX9148
☐AWX
C7128
R7128
C7127
R7127
C7126
R7126
FANSTOP
FAN L
FAN H
V+5.6U
GNDU
GNDU
RDSRST
RDSCK
RDSDT
TDO
TCLK
TDI
TCE
VOLCK
VOLDT
ZVOLCK
ZVOLDT
Z3MUTE
Z2MUTE
SBMUTE
AMUTE
HPRY
NC
PHONOSE
MICSEL
LSSN
GNDD
GNDHP
HPL
GNDHP
HPR
GNDA
MICOUT
C7031
CN7062
CN7002
CN7031
C

B

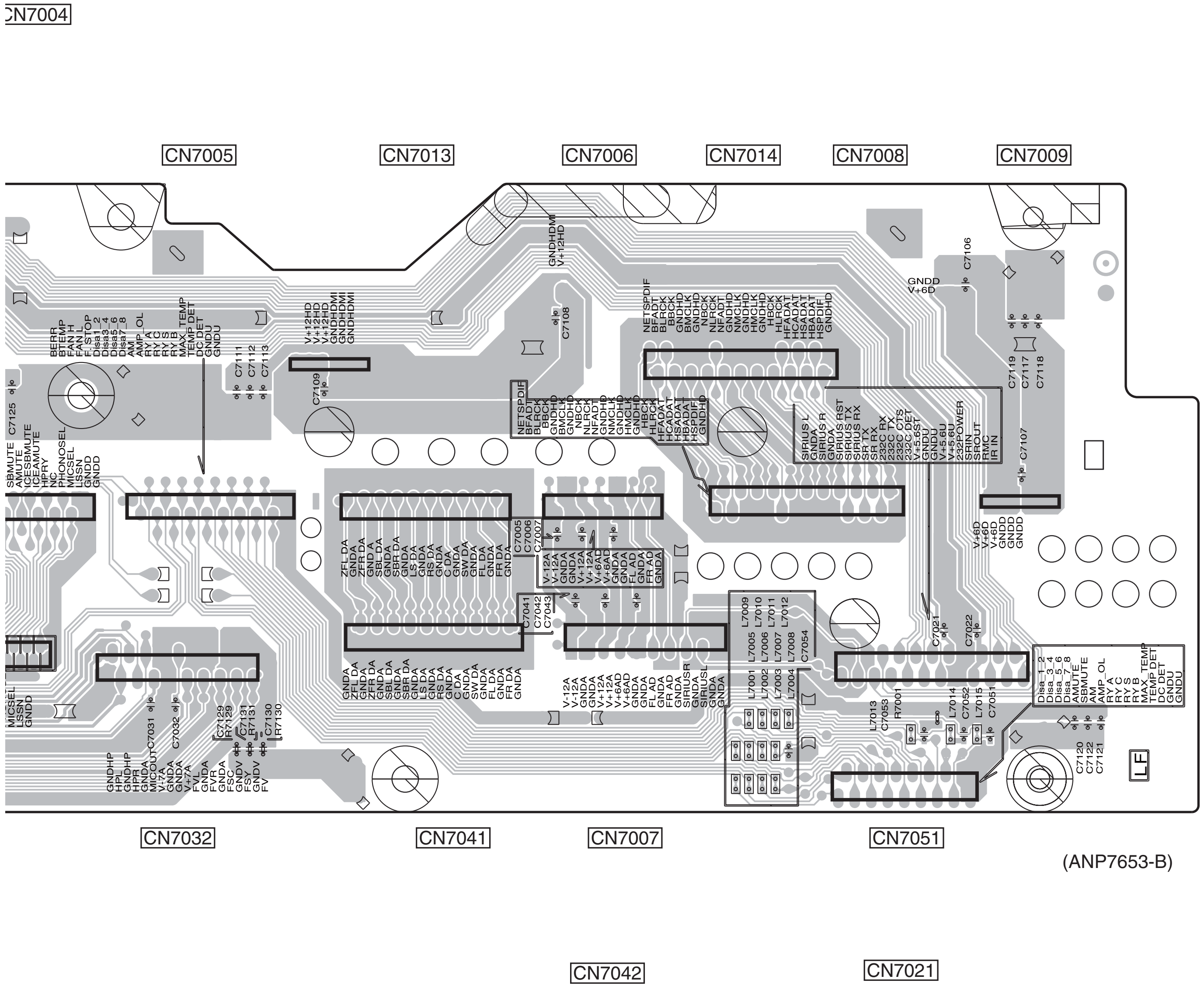
C

D

E

F

SIDE B


CN7004
CN7005
CN7013
CN7006
CN7014
CN7008
CN7009
CN7032
CN7041
CN7007
CN7051
CN7042
CN7021
LF

(ANP7653-B)

11.7 COMPONENT and V-BRIDGE ASSYS

SIDE A

A

IC	Q	
	Q6025	
	Q6013	
	Q6011	
	Q6009	
	Q6023	
IC6007	Q6010	
	Q6014	Q6012
	Q6024	
IC6002		
IC6005		
IC6008		
IC6001		
IC6009		
IC6015		
IC6012		
IC6013		
IC6003		
IC6004		
IC6010		
IC6014	Q6002	
	Q6004	Q6006
	Q6007	Q6001
		Q6021
	Q6003	Q6016
	Q6005	Q6020
		Q6015
	Q6019	
	Q6018	
IC6006	Q6022	
	Q6008	
	Q6017	

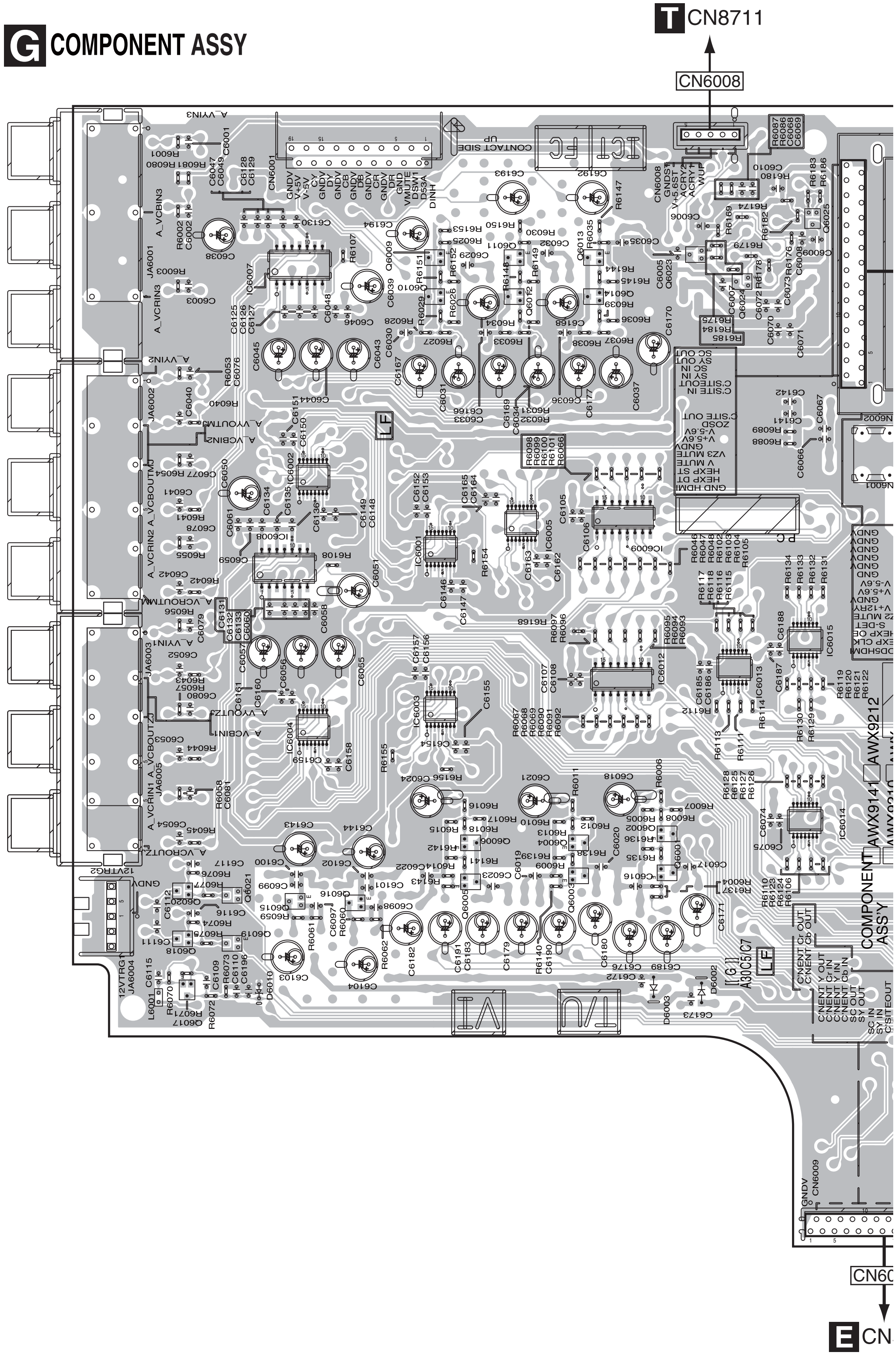
B

C

D

E

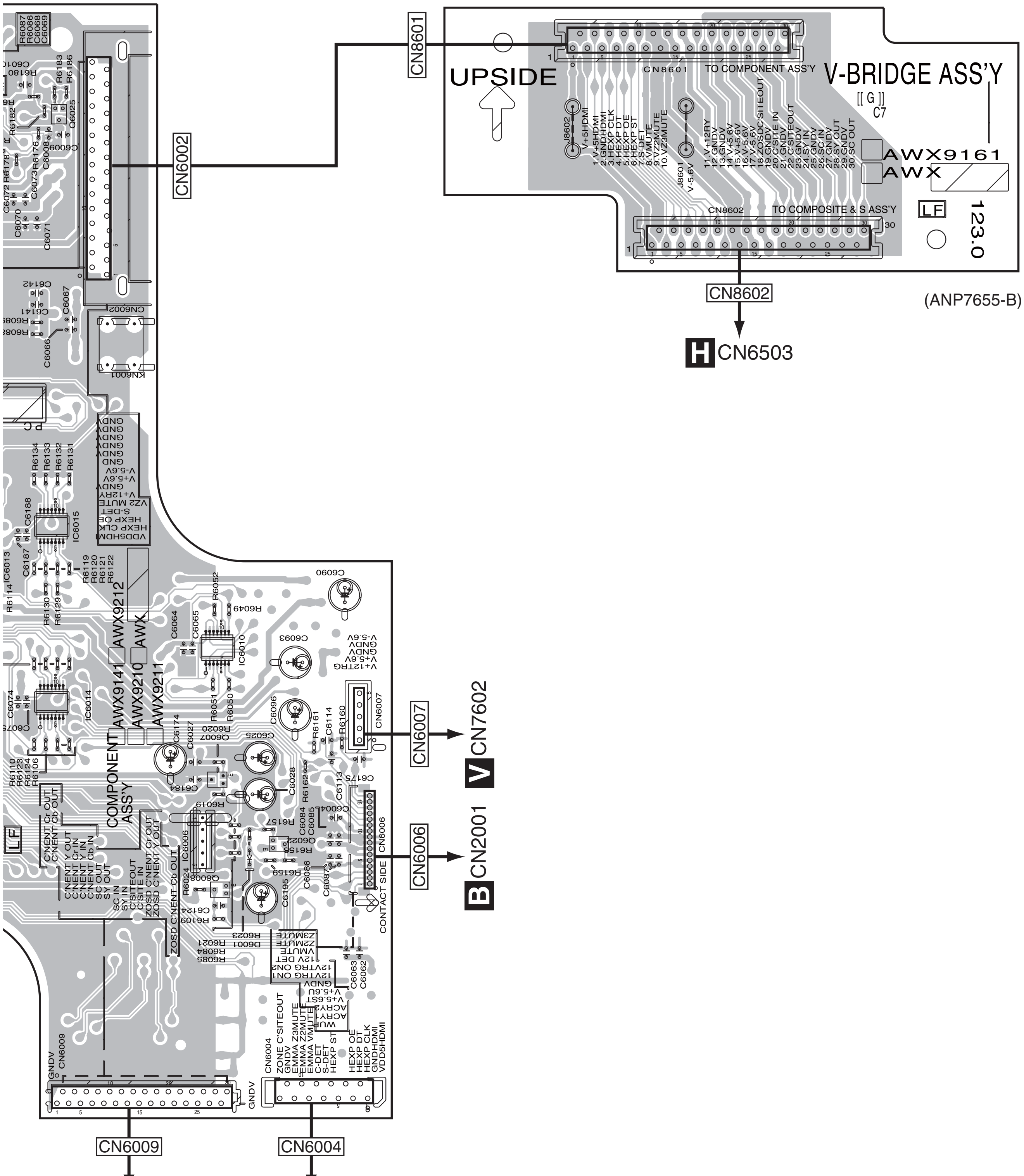
F


G COMPONENT ASSY
T CN8711
CN6008
CN6001
CONTACT SIDE
JA6001
JA6002
JA6003
JA6005
JA6004
12VTRG2
12VTRG1
A_VYIN3
A_VCBIN3
A_VCRIN3
A_VYIN2
A_VYOUTM
A_VCBIN2
A_VCBOUTM
A_VCRIN2
A_VCROUTM
A_VYIN1
A_VYOUT2
A_VCBIN1
A_VCBOUT2
A_VCRIN1
A_VCROUT2
IC6007
IC6002
IC6008
IC6001
IC6005
IC6009
IC6003
IC6004
IC6012
IC6013
IC6015
IC6014
AWX9141
AWX9212
COMPONENT ASSY
CN6009
CN60
E CN

SIDE A

1

J V-BRIDGE ASSY

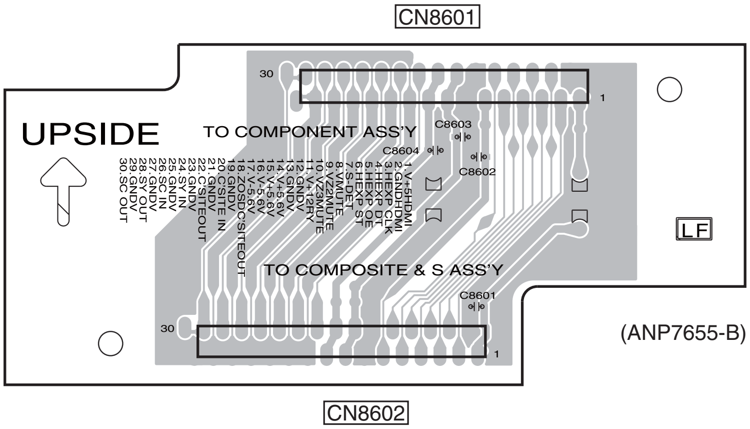

CN8601
CN6002
UPSIDE
V-BRIDGE ASS'Y
[[G]]
C7
AWX9161
AWX
LF
123.0
CN8601 TO COMPONENT ASS'Y
CN8602 TO COMPOSITE & S ASS'Y
J8602
J8601
1.V+5HDMI
2.GNDHDMI
3.HEXP CLK
4.HEXP DT
5.HEXP OE
6.HEXP ST
7.S-DET
8.VMUTE
9.VZ2MUTE
10.VZ3MUTE
11.V+12RY
12.GNDV
13.GNDV
14.V+5.6V
15.V+5.6V
16.V-5.6V
17.V-5.6V
18.ZOSDC'SITEOUT
19.GNDV
20.C'SITE IN
21.GNDV
22.C'SITEOUT
23.GNDV
24.SY IN
25.GNDV
26.SC IN
27.GNDV
28.SY OUT
29.GNDV
30.SC OUT
CN8602
H CN6503
COMPONENT ASS'Y
AWX9141
AWX9210
AWX9211
AWX9212
AWX
LF
IC6015
IC6014
IC6010
IC6006
CN6007
CN6006
CONTACT SIDE
V CN7602
B CN2001
CN6009
CN6004
E CN501
E CN502

(ANP7655-B)

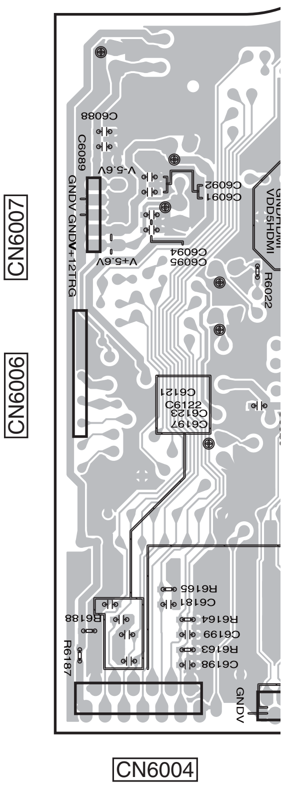
(ANP7651-B)

SIDE B

J V-BRIDGE ASSY

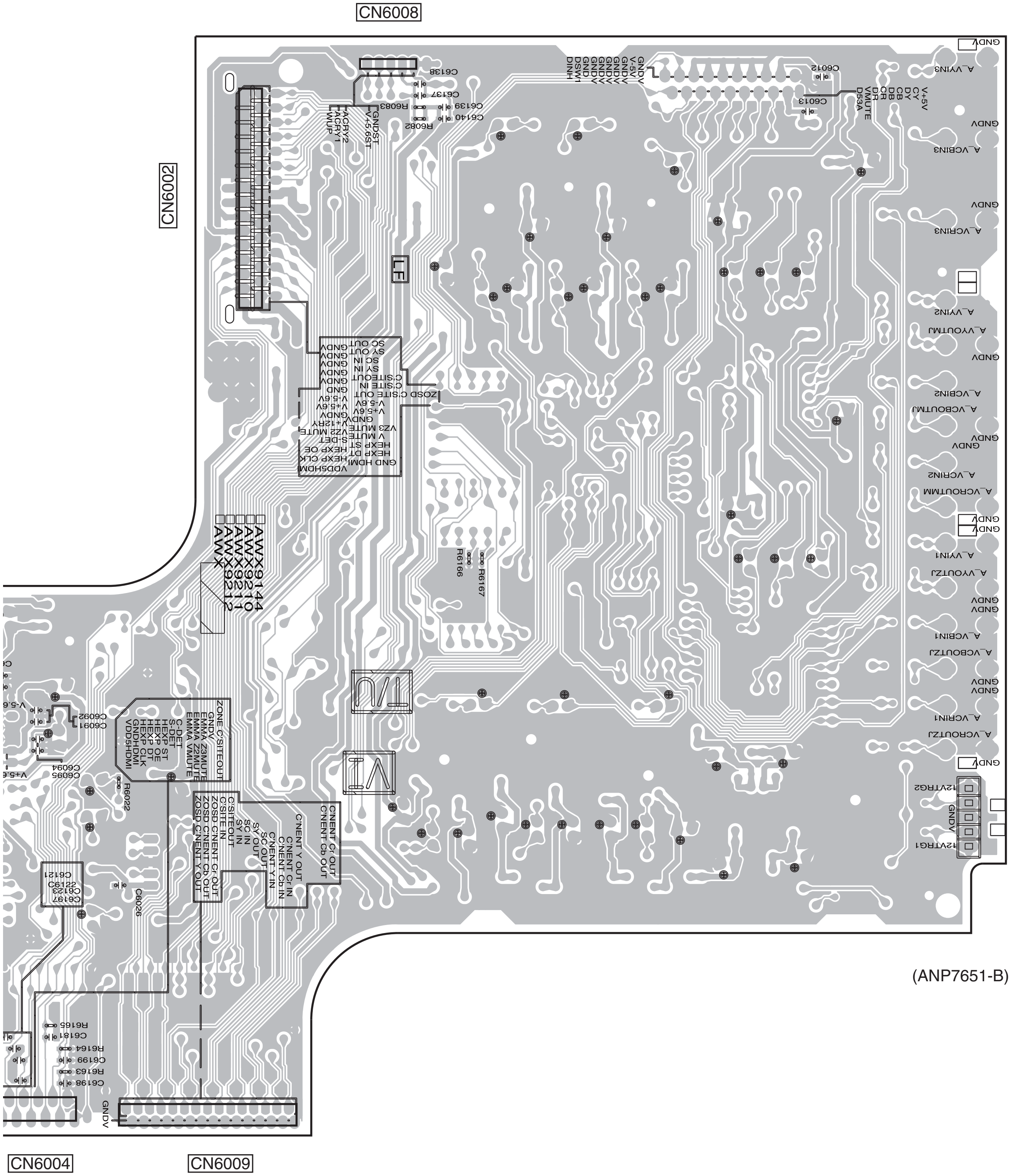

CN8601
30
1
UPSIDE
TO COMPONENT ASS'Y
C8603
C8604
C8602
1.V+5HDMI
2.GNDHDMI
3.HEXP CLK
4.HEXP DT
5.HEXP OE
6.HEXP ST
7.S-DET
8.VMUTE
9.VZ2MUTE
10.VZ3MUTE
11.V+12RY
12.GNDV
13.GNDV
14.V+5.6V
15.V+5.6V
16.V-5.6V
17.V-5.6V
18.ZOSDC'SITEOUT
19.GNDV
20.C'SITE IN
21.GNDV
22.C'SITEOUT
23.GNDV
24.SY IN
25.GNDV
26.SC IN
27.GNDV
28.SY OUT
29.GNDV
30.SC OUT
LF
TO COMPOSITE & S ASS'Y
C8601
30
1
CN8602

(ANP7655-B)


CN6007
CN6006
CN6004
C6088
C6089
V-5.6V
GNDV GNDV V+12TRG
V+5.6V
C6092
C6091
C6094
C6095
VDD5HDMI
R6022
C6121
C6122
C6123
C6197
R6165
C6181
R6164
C6199
R6163
C6198
R6188
R6187
GNDV

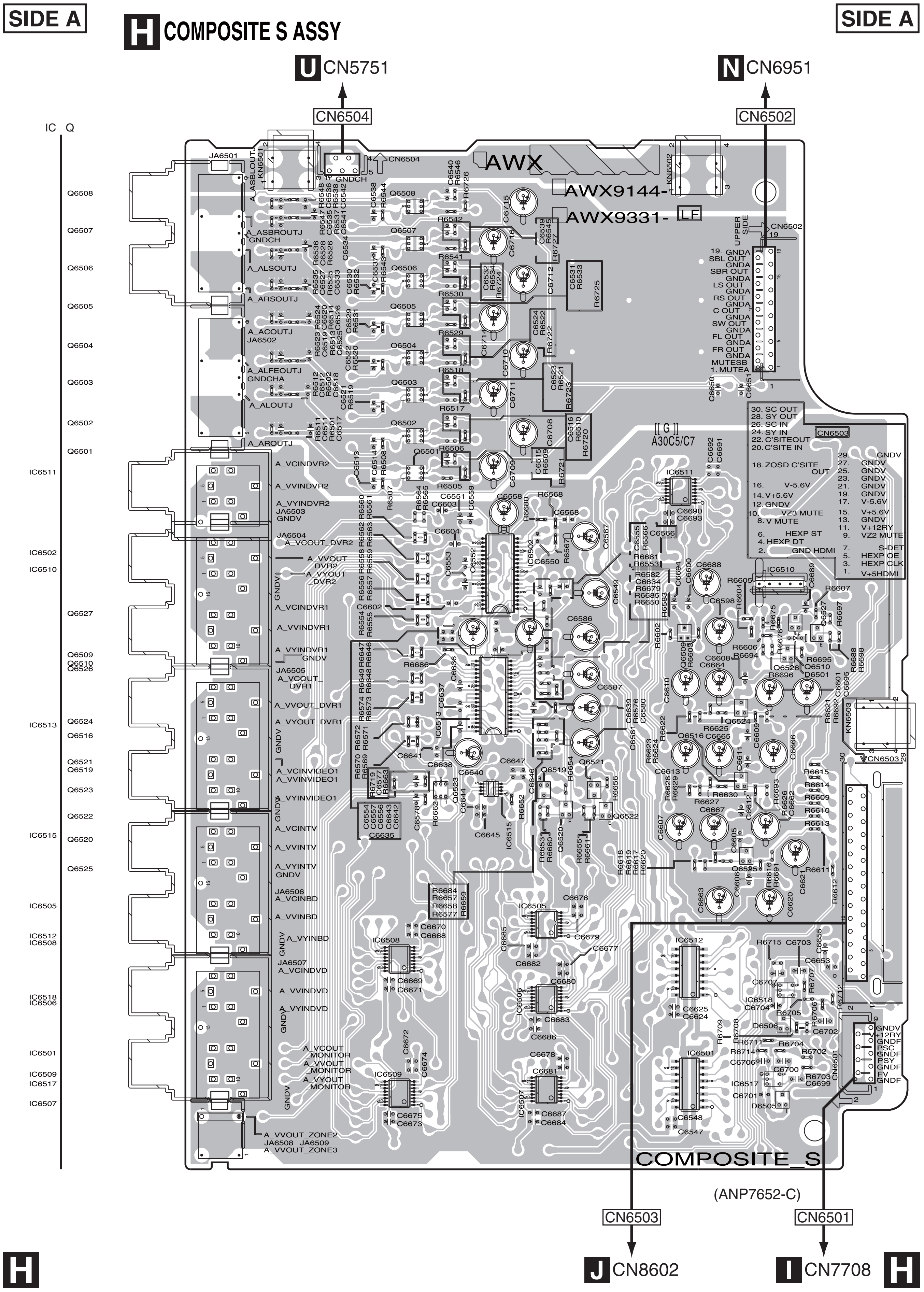
SIDE B

G COMPONENT ASSY


CN6008
CN6002
CN6004
CN6009
LF
AWX9144
AWX9210
AWX9211
AWX9212
C6138
C6137
C6139
C6140
R6083
R6082
C6012
C6013
R6166
R6167
C6091
C6092
C6094
C6095
R6022
C6026
C6121
C6122
C6123
C6197
R6165
C6181
R6164
C6199
R6163
C6198
GNDV
A_VYIN3
A_VCBIN3
A_VCRIN3
A_VYIN2
A_VYOUTMJ
A_VCBIN2
A_VCBOUTMJ
A_VCRIN2
A_VCROUTMM
A_VYIN1
A_VYOUTZJ
A_VCBIN1
A_VCBOUTZJ
A_VCRIN1
A_VCROUTZJ
12VTRG2
12VTRG1
V+5V
CY
DY
CB
DB
CR
DR
VMUTE
D53A
GNDV
V-5V
DSW1
DINH
GNDST
V+5.6ST
FACRY2
FACRY1
WUP
C'NENT Cr OUT
C'NENT Cb OUT
C'NENT Y OUT
C'NENT Cr IN
C'NENT Cb IN
C'NENT Y IN
ZONE C'SITEOUT
ZOSD C'SITE OUT
HEXP ST
HEXP DT
HEXP OE
HEXP CLK
S-DET
GNDHDMI
VDD5HDMI

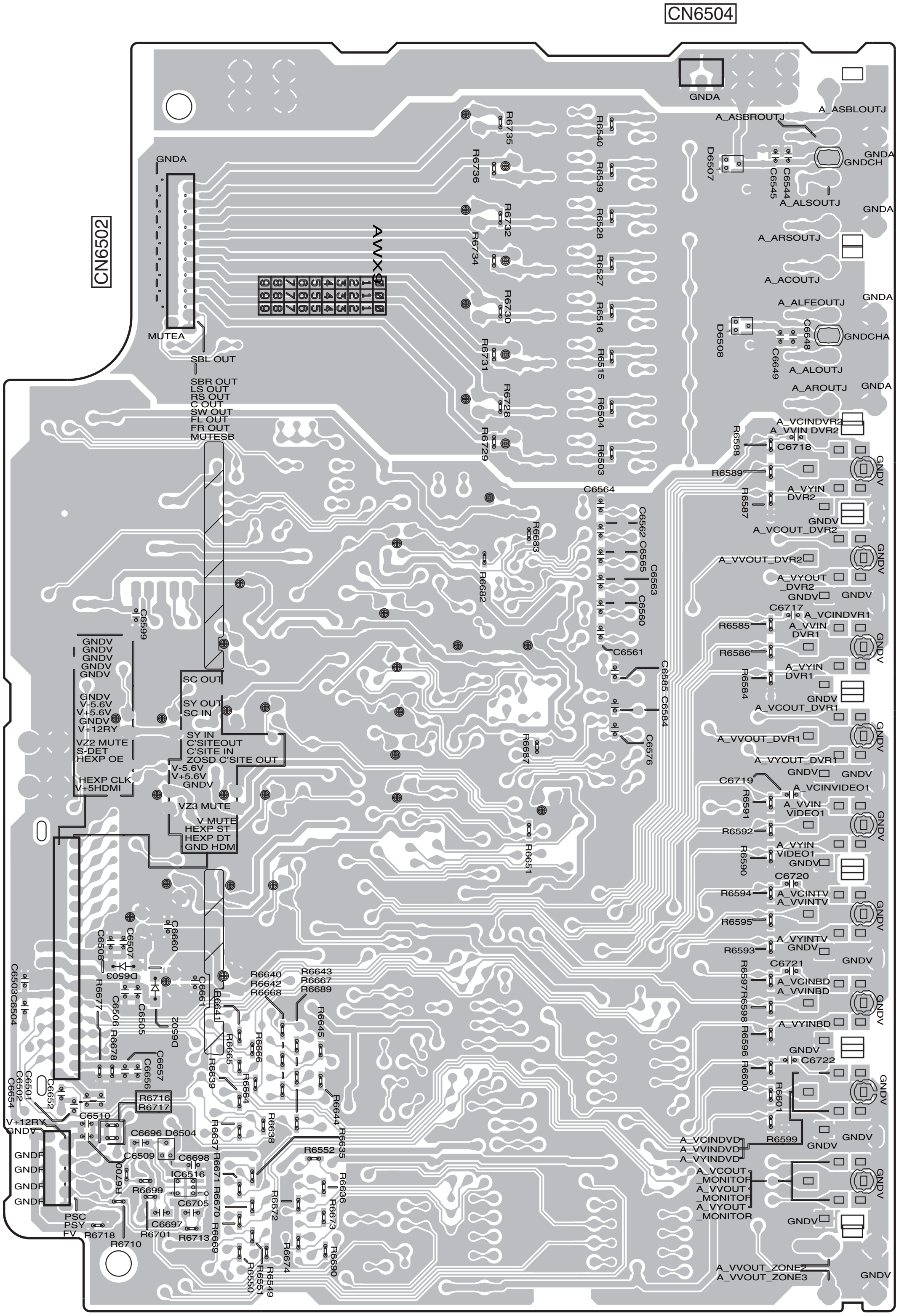
(ANP7651-B)

11.8 COMPOSITE S ASSY


SIDE A
H
COMPOSITE S ASSY
SIDE A
U CN5751
N CN6951
CN6504
CN6502
IC
Q
Q6508
Q6507
Q6506
Q6505
Q6504
Q6503
Q6502
Q6501
IC6511
IC6502
IC6510
Q6527
Q6509
Q6510
Q6526
IC6513
Q6524
Q6516
Q6521
Q6519
Q6523
Q6522
IC6515
Q6520
Q6525
IC6505
IC6512
IC6508
IC6518
IC6506
IC6501
IC6509
IC6517
IC6507
AWX
AWX9144-
AWX9331-
LF
UPPER SIDE
19. GNDA
SBL OUT
GNDA
SBR OUT
GNDA
LS OUT
GNDA
RS OUT
GNDA
C OUT
GNDA
SW OUT
GNDA
FL OUT
GNDA
FR OUT
GNDA
MUTESB
1. MUTEA
30. SC OUT
28. SY OUT
26. SC IN
24. SY IN
22. C'SITEOUT
20. C'SITE IN
18. ZOSD C'SITE OUT
16. V-5.6V
14. V+5.6V
12. GNDV
10. VZ3 MUTE
8. V MUTE
6. HEXP ST
4. HEXP DT
2. GND HDMI
29. GNDV
27. GNDV
25. GNDV
23. GNDV
21. GNDV
19. GNDV
17. V-5.6V
15. V+5.6V
13. GNDV
11. V+12RY
9. VZ2 MUTE
7. S-DET
5. HEXP OE
3. HEXP CLK
1. V+5HDMI
[[G]]
A30C5/C7
GNDV
+12RY
GNDF
PSC
GNDF
PSY
GNDF
FV
GNDF
COMPOSITE_S
(ANP7652-C)
CN6503
CN6501
J CN8602
I CN7708
H

SIDE B **SIDE B**

H COMPOSITE S ASSY

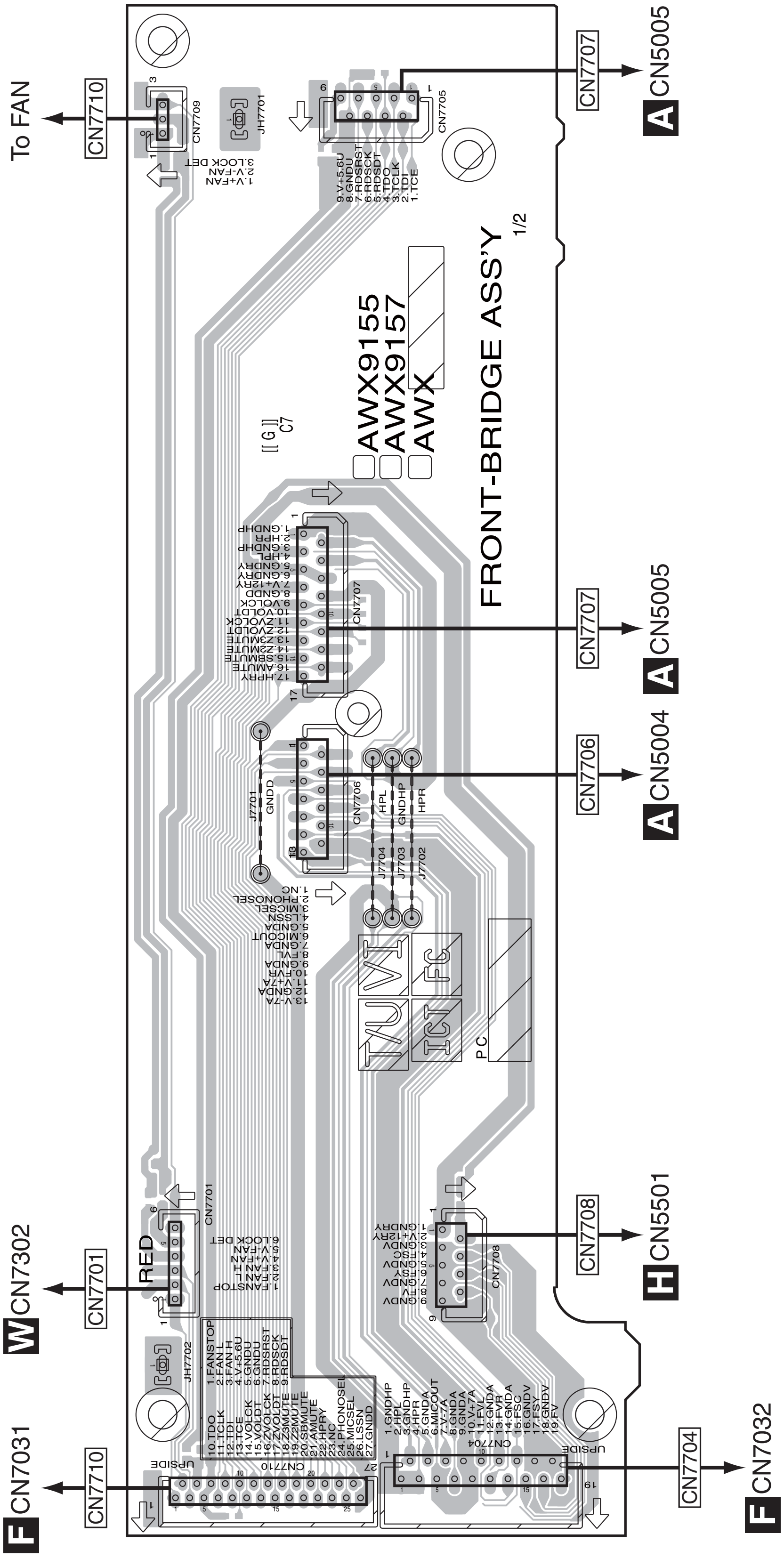

CN6504
GNDA
A_ASBROUTJ
A_ASBLOUTJ
D6507
C6544
C6545
GNDCH
A_ALSOUTJ
A_ARSOUTJ
A_ACOUTJ
A_ALFEOUTJ
D6508
C6648
C6649
GNDCHA
A_ALOUTJ
A_AROUTJ
CN6502
MUTEA
AWX9
R6735
R6736
R6732
R6734
R6730
R6731
R6728
R6729
R6540
R6539
R6528
R6527
R6516
R6515
R6504
R6503
SBL OUT
SBR OUT
LS OUT
RS OUT
C OUT
SW OUT
FL OUT
FR OUT
MUTESB
A_VCINDVR2
A_VVIN DVR2
R6588
C6718
R6589
A_VYIN DVR2
R6587
GNDV
A_VCOUT_DVR2
A_VVOUT_DVR2
A_VYOUT _DVR2
C6717
A_VCINDVR1
R6585
A_VVIN DVR1
R6586
A_VYIN DVR1
R6584
A_VCOUT_DVR1
A_VVOUT_DVR1
A_VYOUT_DVR1
C6719
A_VCINVIDEO1
R6591
A_VVIN VIDEO1
R6592
A_VYIN VIDEO1
R6590
C6720
R6594
A_VCINTV
A_VVINTV
R6595
A_VYINTV
R6593
C6721
A_VCINBD
A_VVINBD
R6597
R6598
R6596
R6600
A_VYINBD
C6722
R6601
R6599
A_VCINDVD
A_VVINDVD
A_VYINDVD
A_VCOUT _MONITOR
A_VVOUT _MONITOR
A_VYOUT _MONITOR
A_VVOUT_ZONE2
A_VVOUT_ZONE3
C6564
C6562
C6565
C6563
C6560
C6561
C6585
C6584
C6576
R6683
R6682
R6687
R6651
C6599
GNDV
V-5.6V
V+5.6V
V+12RY
VZ2 MUTE
S-DET
HEXP OE
HEXP CLK
V+5HDMI
SC OUT
SY OUT
SC IN
SY IN
C'SITEOUT
C'SITE IN
ZOSD C'SITE OUT
VZ3 MUTE
V MUTE
HEXP ST
HEXP DT
GND HDMI
CN6503
C6503
C6504
C6507
C6508
C6660
D6503
R6677
C6506
C6505
D6502
C6661
R6678
C6657
C6656
C6501
C6502
C6654
C6652
R6716
R6717
C6510
V+12RY
CN6501
GNDF
C6696
D6504
C6509
C6698
IC6516
R6700
R6699
C6705
C6697
PSC
PSY
FV
R6718
R6710
R6701
R6713
R6640
R6642
R6668
R6643
R6667
R6689
R6641
R6665
R6666
R6645
R6639
R6664
R6644
R6635
R6637
R6638
R6671
R6670
R6669
R6552
R6636
R6672
R6673
R6674
R6690
R6650
R6651
R6549

(ANP7652-C)

11.9 FRONT BRIDGE ASSY

SIDE A **SIDE A**

I FRONT BRIDGE ASSY

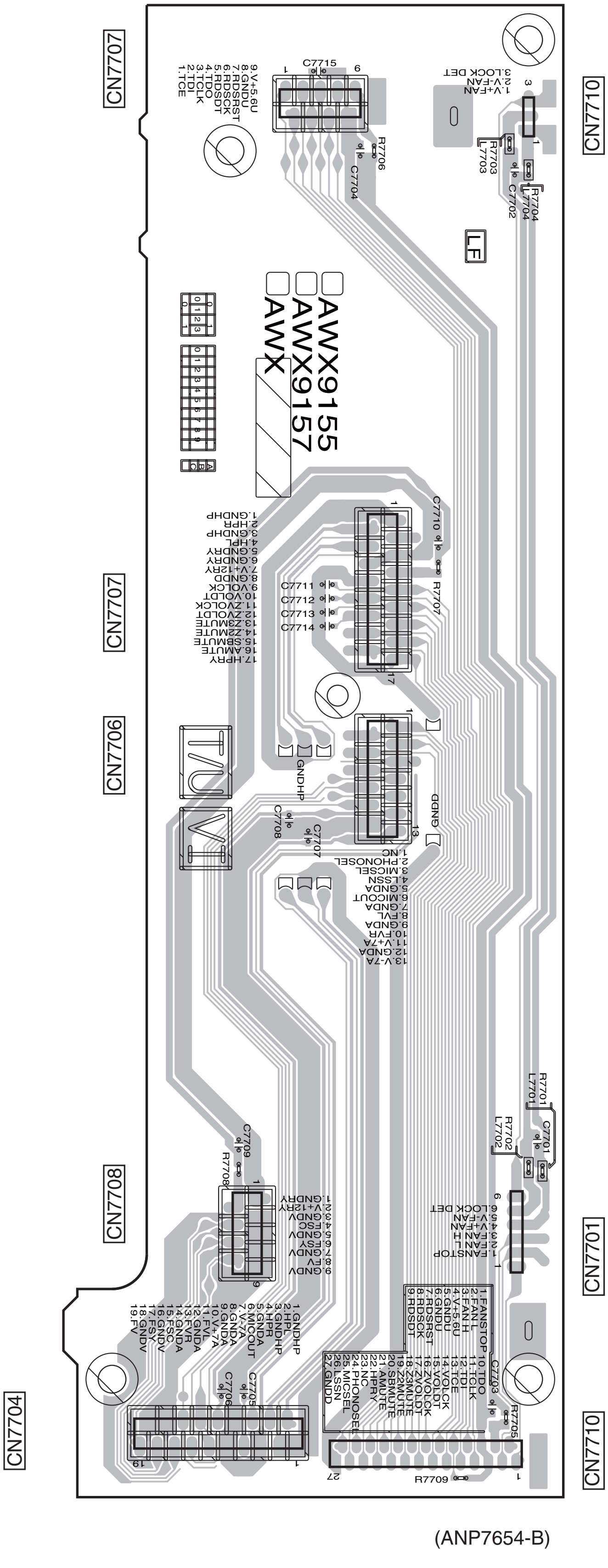

To FAN
CN7710
CN7709
JH7701
1.V+FAN
2.V-FAN
3.LOCK DET
CN7705
9.V+5.6U
8.GNDU
7.RDSRST
6.RDSCK
5.RDSDT
4.TDO
3.TCLK
2.TDI
1.TCE
CN7707
A CN5005
FRONT-BRIDGE ASS'Y
1/2
AWX9155
AWX9157
AWX
[[G]]
C7
1.GNDHP
2.HPR
3.GNDHP
4.HPL
5.GNDRY
6.GNDRY
7.V+12RY
8.GND
9.VOLCK
10.VOLDT
11.ZVOLCK
12.ZVOLDT
13.Z3MUTE
14.Z2MUTE
15.SBMUTE
16.AMUTE
17.HPRY
CN7707
A CN5005
CN7706
A CN5004
J7701
GNDD
HPL
GNDHP
HPR
J7704
J7703
J7702
1.NC
2.PHONOSEL
3.MICSEL
4.LSSN
5.GNDA
6.MICOUT
7.GNDA
8.FVL
9.GNDA
10.FVR
11.V+7A
12.GNDA
13.V-7A
PC
CN7701
RED
1.FANSTOP
2.FAN L
3.FAN H
4.V+FAN
5.V-FAN
6.LOCK DET
W CN7302
CN7708
1.GNDRY
2.V+12RY
3.GNDV
4.FSO
5.GNDV
6.FSY
7.GNDV
8.FV
9.GNDV
H CN5501
JH7702
1.FANSTOP
2.FAN L
3.FAN H
4.V+5.6U
5.GNDU
6.GNDU
7.RDSRST
8.RDSCK
9.RDSDT
10.TDO
11.TCLK
12.TDI
13.TCE
14.VOLCK
15.VOLDT
16.ZVOLCK
17.ZVOLDT
18.Z3MUTE
19.Z2MUTE
20.SBMUTE
21.AMUTE
22.HPRY
23.NC
24.PHONOSEL
25.MICSEL
26.LSSN
27.GNDD
CN7710
UPSIDE
F CN7031
1.GNDHP
2.HPL
3.GNDHP
4.HPR
5.GNDA
6.MICOUT
7.V-7A
8.GNDA
9.GNDA
10.V+7A
11.FVL
12.GNDA
13.FVR
14.GNDA
15.FSO
16.GNDV
17.FSY
18.GNDV
19.FV
CN7704
UPSIDE
F CN7032

(ANP7654-B)

SIDE B

SIDE B

I FRONT BRIDGE ASSY

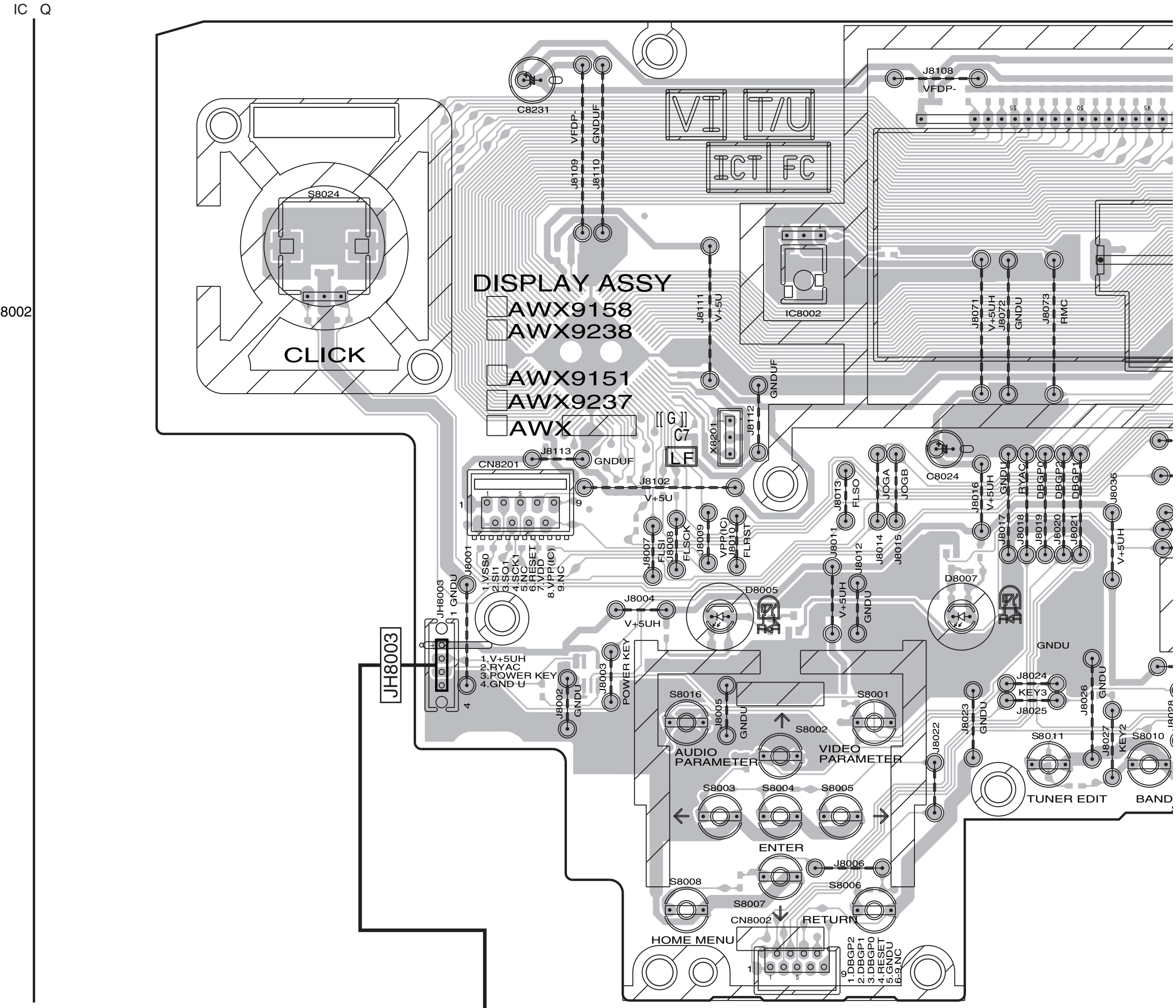

CN7707
CN7710
C7715
9.V+5.6U
8.GNDU
7.RDSRST
6.RDSCK
5.RDSDT
4.TDO
3.TCLK
2.TDI
1.TCE
3.LOCK DET
2.V-FAN
1.V+FAN
R7706
C7704
R7703
L7703
R7704
L7704
C7702
LF
AWX9155
AWX9157
AWX
C7710
R7707
1.GNDHP
2.HPR
3.GNDHP
4.HPL
5.GNDRY
6.GNDRY
7.V+12RY
8.GNDD
9.VOLCK
10.VOLDT
11.ZVOLCK
12.ZVOLDT
13.Z3MUTE
14.Z2MUTE
15.SBMUTE
16.AMUTE
17.HPRY
C7711
C7712
C7713
C7714
CN7707
CN7706
GNDHP
GNDD
C7708
C7707
1.NC
2.PHONOSEL
3.MICSEL
4.LSSN
5.GNDA
6.MICOUT
7.GNDA
8.FVL
9.GNDA
10.FVR
11.V+7A
12.GNDA
13.V-7A
R7701
L7701
C7701
R7702
L7702
C7709
R7708
CN7708
1.GNDRY
2.V+12RY
3.GNDV
4.FSC
5.GNDV
6.FSY
7.GNDV
8.FV
9.GNDV
6.LOCK DET
5.V-FAN
4.V+FAN
3.FAN H
2.FAN L
1.FANSTOP
CN7701
1.GNDHP
2.HPL
3.GNDHP
4.HPR
5.GNDA
6.MICOUT
7.V-7A
8.GNDA
9.GNDA
10.V+7A
11.FVL
12.GNDA
13.FVR
14.GNDA
15.FSC
16.GNDV
17.FSY
18.GNDV
19.FV
1.FANSTOP
2.FAN L
3.FAN H
4.V+5.6U
5.GNDU
6.GNDU
7.RDSRST
8.RDSCK
9.RDSDT
10.TDO
11.TCLK
12.TDI
13.TCE
14.VOLCK
15.VOLDT
16.ZVOLCK
17.ZVOLDT
18.Z3MUTE
19.Z2MUTE
20.SBMUTE
21.AMUTE
22.HPRY
23.NC
24.PHONOSEL
25.MICSEL
26.LSSN
27.GNDD
C7703
R7705
C7706
C7705
CN7704
CN7710
R7709

(ANP7654-B)

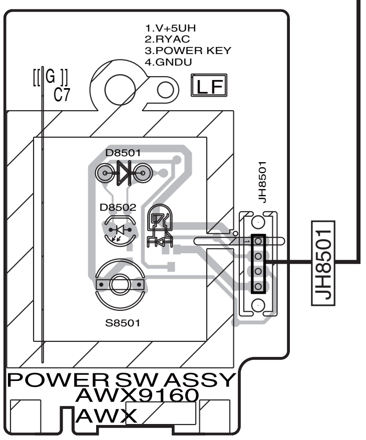
11.10 DISPLAY, POWER SW and VOL ASSYS

SIDE A

K DISPLAY ASSY


IC
Q
IC8002
S8024
CLICK
C8231
J8109
VFDP-
J8110
GNDUF
VI
T/U
ICT
FC
J8108
VFDP-
DISPLAY ASSY
AWX9158
AWX9238
AWX9151
AWX9237
AWX
J8111
V+5U
IC8002
J8071
V+5UH
J8072
GNDU
J8073
RMC
GNDUF
J8112
X8201
[[G]]
C7
LF
J8113
GNDUF
CN8201
J8102
V+5U
C8024
J8013
FLSO
JOGA
JOGB
J8016
V+5UH
GNDU
RYAC
DBGP0
DBGP2
DBGP1
J8036
1.VSS0
2.SI1
3.SO1
4.SCK1
5.NC
6.RESET
7.VDD
8.VPP(IC)
9.NC
J8001
J8007
FLSI
J8008
FLSCK
J8009
VPP(IC)
J8010
FLRST
J8011
V+5UH
J8012
GNDU
J8014
J8015
J8017
J8018
J8019
J8020
J8021
V+5UH
JH8003
1 GNDU
J8004
V+5UH
D8005
D8007
1.V+5UH
2.RYAC
3.POWER KEY
4.GND U
J8002
GNDU
J8003
POWER KEY
S8016
J8005
GNDU
S8002
S8001
AUDIO PARAMETER
VIDEO PARAMETER
J8022
J8023
GNDU
GNDU
J8024
KEY3
J8025
J8026
GNDU
J8027
KEY2
S8011
S8010
TUNER EDIT
BAND
S8003
S8004
S8005
ENTER
J8006
S8006
S8008
S8007
HOME MENU
CN8002
RETURN
1.DBGP2
2.DBGP1
3.DBGP0
4.RESET
5.GNDU
6-9.NC
JH8003

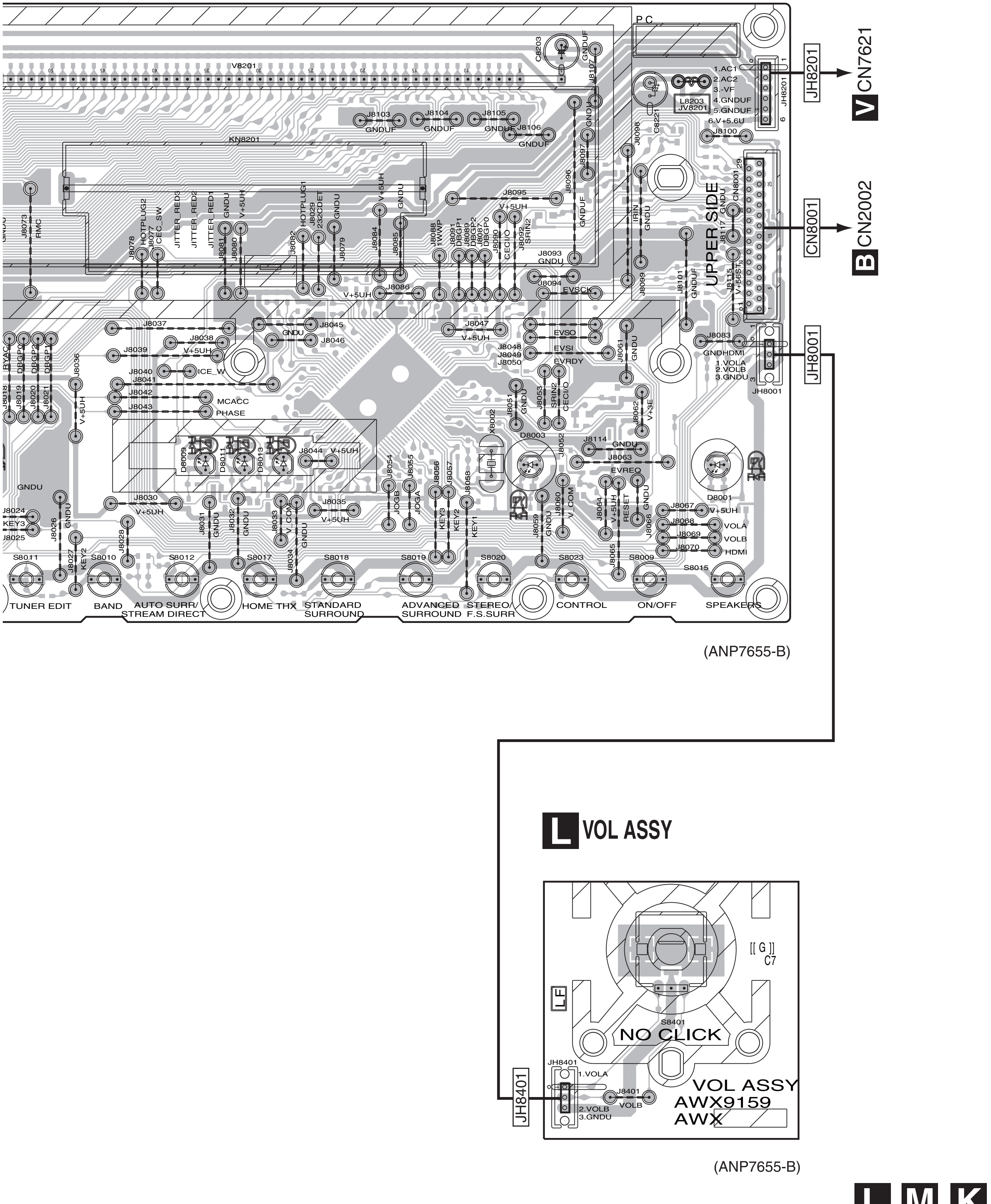
M POWER SW ASSY


1.V+5UH
2.RYAC
3.POWER KEY
4.GNDU
[[G]]
C7
LF
D8501
D8502
JH8501
S8501
JH8501
POWER SW ASSY
AWX9160
AWX

(ANP7655-B)

K M L

SIDE A

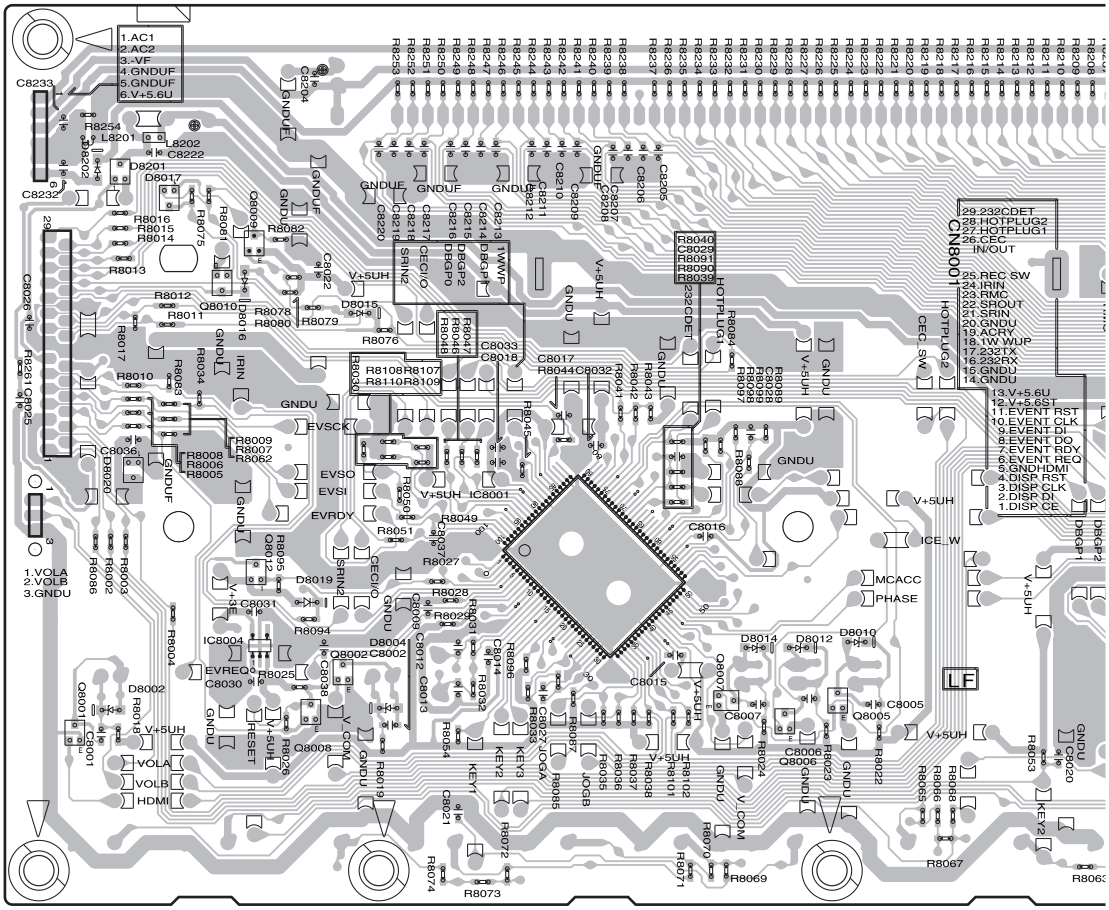

JH8201
V CN7621
1.AC1
2.AC2
3.-VF
4.GNDUF
5.GNDUF
6.V+5.6U
L8203
JV8201
C8203
C8221
V8201
KN8201
CN8001
B CN2002
UPPER SIDE
JH8001
1.VOLA
2.VOLB
3.GNDU
J8083
GNDHDMI
D8001
D8003
D8009
D8011
D8013
X8002
S8011
S8010
S8012
S8017
S8018
S8019
S8020
S8023
S8009
S8015
TUNER EDIT
BAND
AUTO SURR/
STREAM DIRECT
HOME THX
STANDARD
SURROUND
ADVANCED
SURROUND
STEREO/
F.S.SURR
CONTROL
ON/OFF
SPEAKERS
(ANP7655-B)
L VOL ASSY
JH8401
1.VOLA
2.VOLB
3.GNDU
J8401
VOLB
S8401
NO CLICK
LF
[[G]]
C7
VOL ASSY
AWX9159
AWX
(ANP7655-B)

L M K

SIDE B

K DISPLAY ASSY

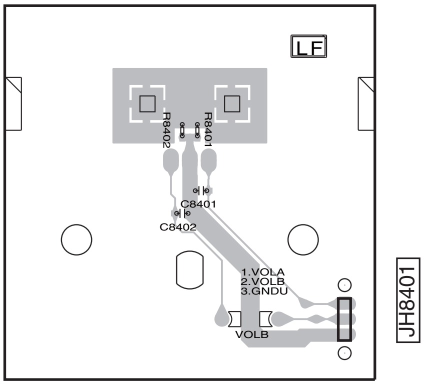
IC	Q
	Q8009
IC8201	
	Q8010
IC8001	
	Q8012
	Q8004
IC8004	Q8002
	Q8003
	Q8007
IC8003	Q8001
	Q8005
	Q8008
	Q8006



JH8201
CN8001
JH8001
1.AC1
2.AC2
3.-VF
4.GNDUF
5.GNDUF
6.V+5.6U
29.232CDET
28.HOTPLUG2
27.HOTPLUG1
26.CEC IN/OUT
25.REC SW
24.IRIN
23.RMC
22.SROUT
21.SRIN
20.GNDU
19.ACRY
18.1W WUP
17.232TX
16.232RX
15.GNDU
14.GNDU
13.V+5.6U
12.V+5.6ST
11.EVENT RST
10.EVENT CLK
9.EVENT DI
8.EVENT DO
7.EVENT RDY
6.EVENT REQ
5.GNDHDMI
4.DISP RST
3.DISP CLK
2.DISP DI
1.DISP CE
1.VOLA
2.VOLB
3.GNDU
IC8001
IC8004
LF
EVSCK
EVSO
EVSI
EVRDY
EVREQ
V+5UH
GNDU
GNDUF
ICE_W
MCACC
PHASE
VOLA
VOLB
HDMI
RESET
V_COM
KEY1
KEY2
KEY3
JOGA
JOGB
SRIN2
CECI/O
IRIN
DBGP1
DBGP2
HOTPLUG1
HOTPLUG2
CEC_SW
232CDET
1WWP

L VOL ASSY

IC	Q
	Q8501

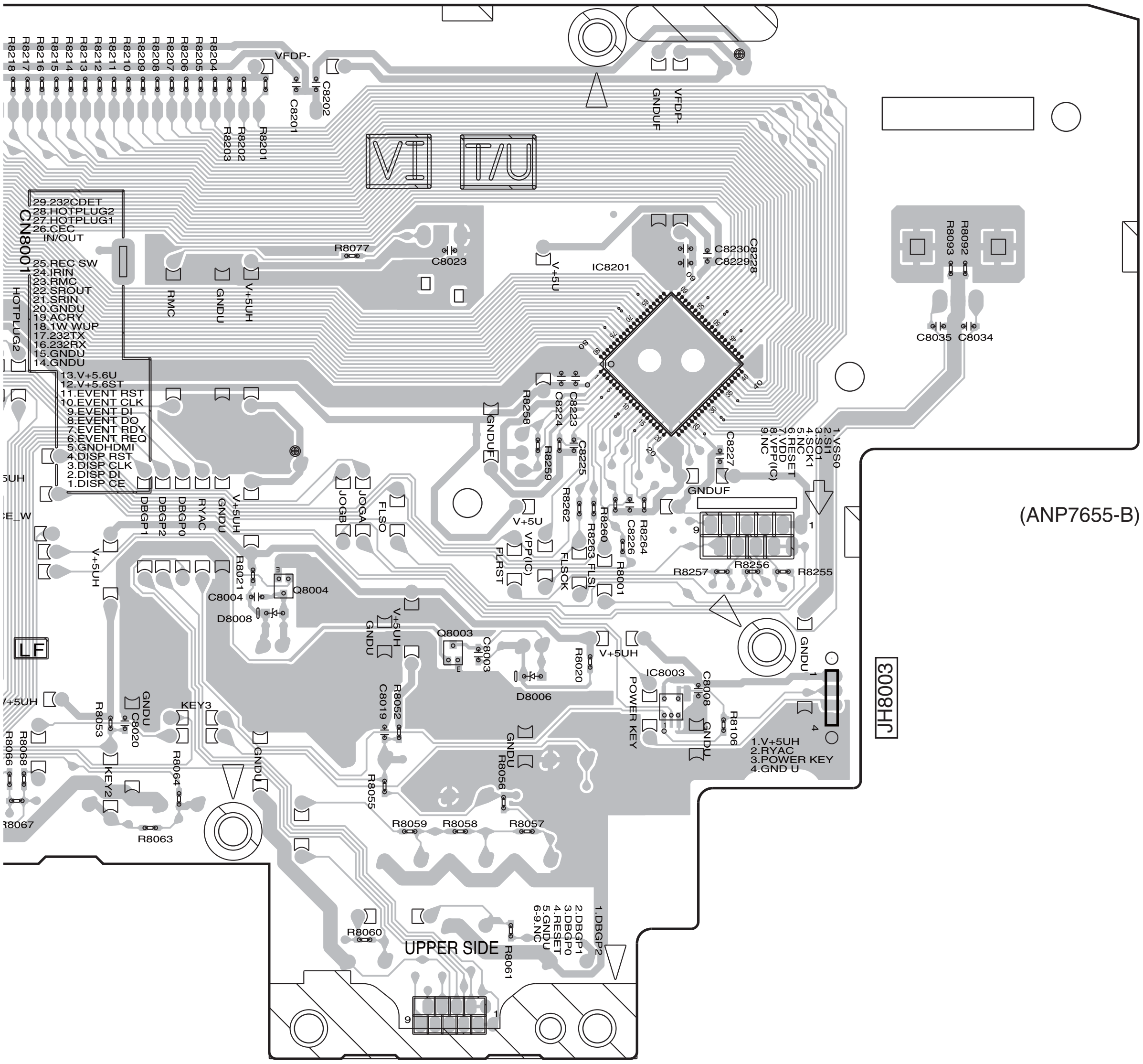


LF
R8402
R8401
C8401
C8402
1.VOLA
2.VOLB
3.GNDU
VOLB
JH8401

(ANP7655-B)

K M L

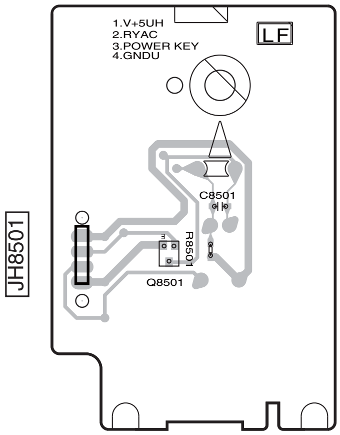
SIDE B



CN8001
29.232CDET
28.HOTPLUG2
27.HOTPLUG1
26.CEC IN/OUT
25.REC SW
24.IRIN
23.RMC
22.SROUT
21.SRIN
20.GNDU
19.ACRY
18.1W WUP
17.232TX
16.232RX
15.GNDU
14.GNDU
13.V+5.6U
12.V+5.6ST
11.EVENT RST
10.EVENT CLK
9.EVENT DI
8.EVENT DO
7.EVENT RDY
6.EVENT REQ
5.GNDHDMI
4.DISP RST
3.DISP CLK
2.DISP DI
1.DISP CE
VI
T/U
IC8201
IC8003
Q8003
Q8004
D8006
D8008
JH8003
1.V+5UH
2.RYAC
3.POWER KEY
4.GND U
1.VSS0
2.SI1
3.SO1
4.SCK1
5.NC
6.RESET
7.VDD
8.VPP(IC)
9.NC
1.DBGP2
2.DBGP1
3.DBGP0
4.RESET
5.GNDU
6-9.NC
UPPER SIDE
LF
VFDP-
GNDUF
V+5U
V+5UH
GNDU
RMC
HOTPLUG2
DBGP1
DBGP2
DBGP0
RYAC
JOGA
JOGB
FLSO
FLSI
FLSCK
FLRST
VPP(IC)
KEY2
KEY3
POWER KEY

(ANP7655-B)

M POWER SW ASSY



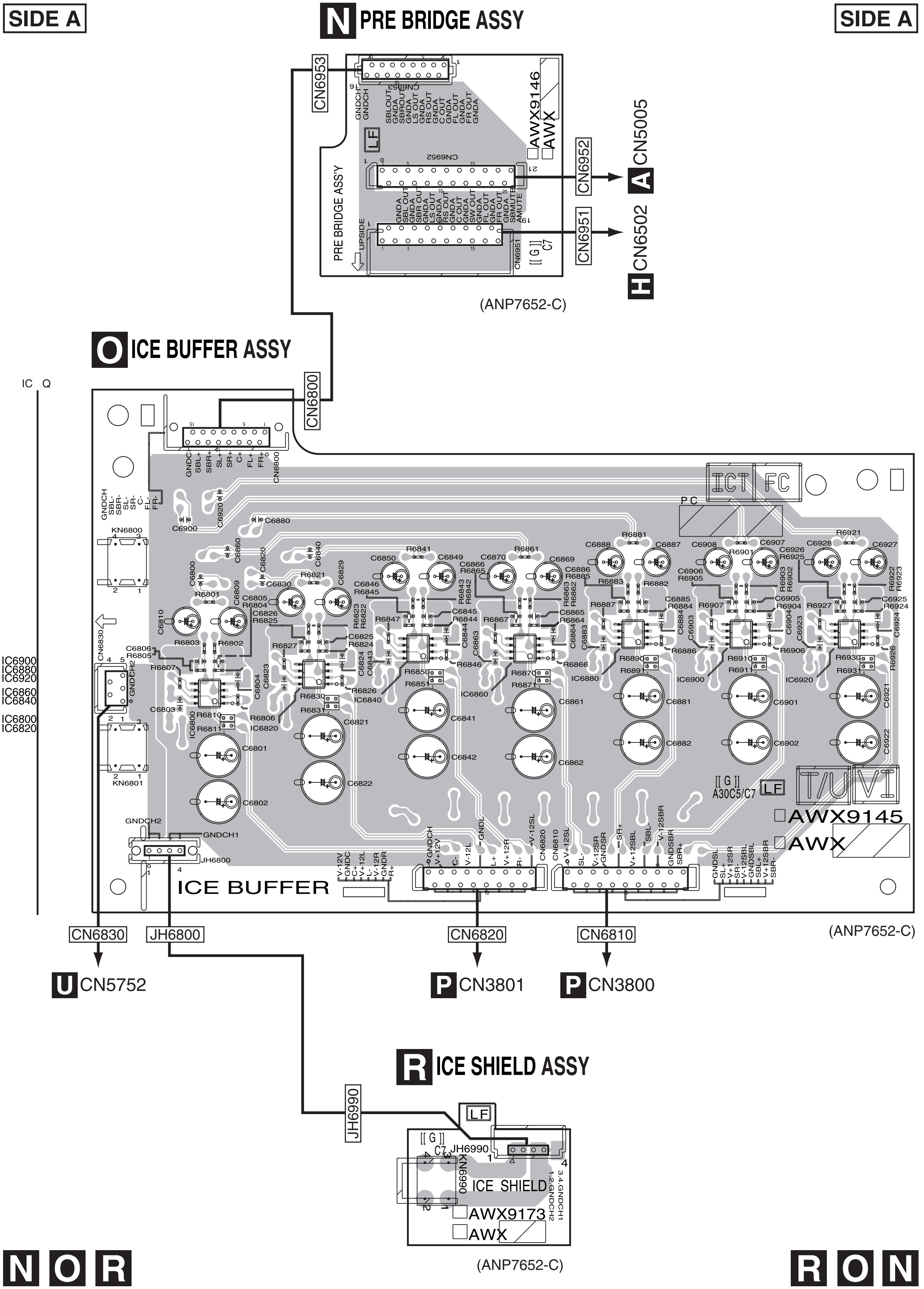
1.V+5UH
2.RYAC
3.POWER KEY
4.GNDU
LF
C8501
R8501
Q8501
JH8501

(ANP7655-B)

L M K

11.11 PRE BRIDGE, ICE BUFFER and ICE SHIELD ASSYS

SIDE A **SIDE A**

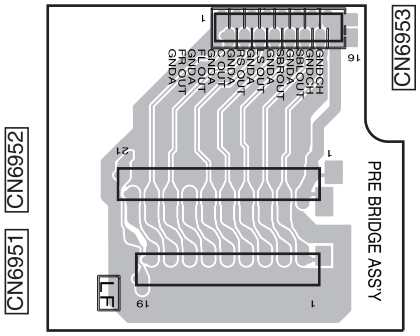

N PRE BRIDGE ASSY
CN6953
CN6952
CN6951
AWX9146
AWX
PRE BRIDGE ASS'Y
UPSIDE
LF
[[G]] C7
A CN5005
H CN6502
(ANP7652-C)
O ICE BUFFER ASSY
CN6800
ICE BUFFER
KN6800
KN6801
CN6830
JH6800
GNDCH1
GNDCH2
CN6820
CN6810
IC6800
IC6820
IC6840
IC6860
IC6880
IC6900
IC6920
IC Q
ICT
FC
PC
T/U
VI
[[G]] A30C5/C7
LF
AWX9145
AWX
(ANP7652-C)
U CN5752
P CN3801
P CN3800
R ICE SHIELD ASSY
JH6990
KN6990
ICE SHIELD
3,4:GNDCH1
1,2:GNDCH2
[[G]] C7
LF
AWX9173
AWX
(ANP7652-C)

N O R **R O N**

SIDE B

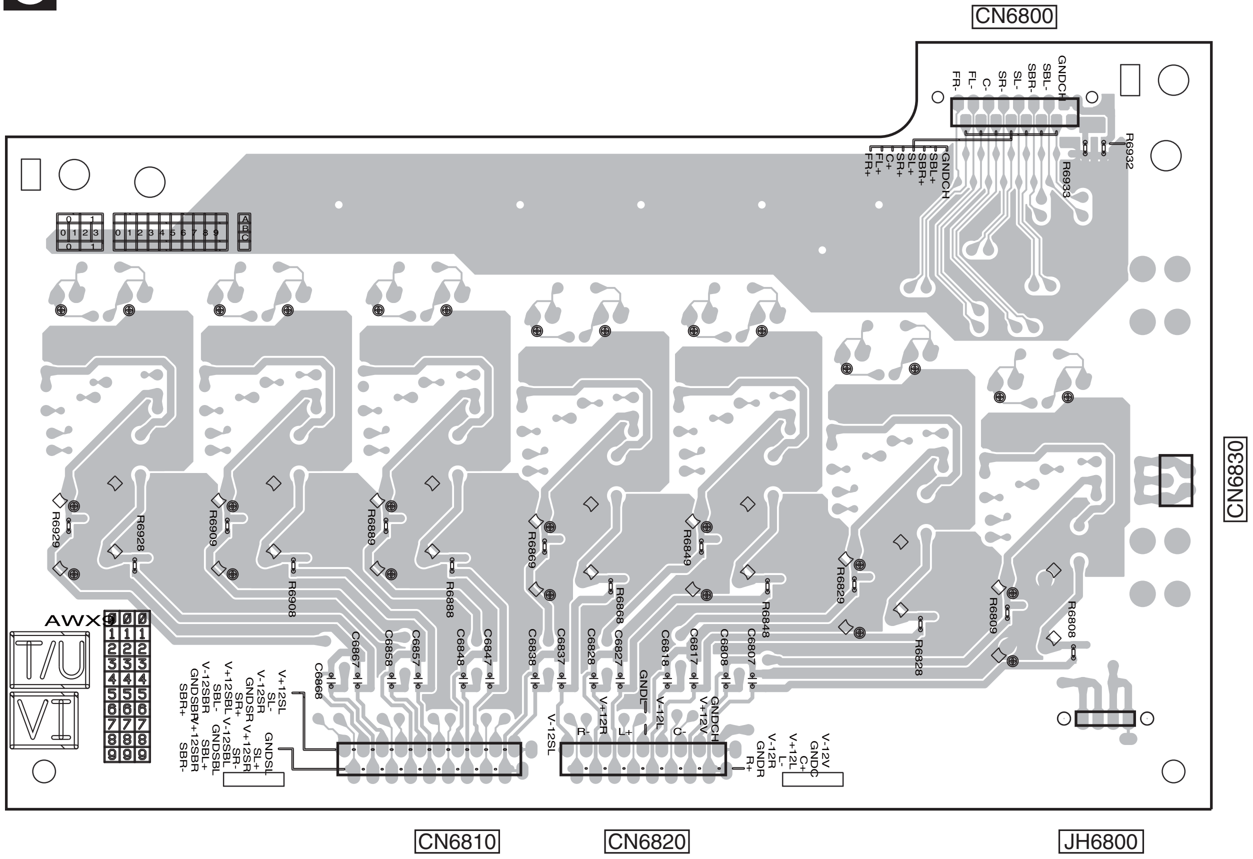
N PRE BRIDGE ASSY

SIDE B


CN6953
CN6952
CN6951
PRE BRIDGE ASSY
LF
GNDCH
GNDCH
SBLOUT
SBROUT
GNDA
GNDA
S OUT
GNDA
GNDA
C OUT
FL OUT
GNDA
GNDA
FR OUT
GNDA
1
16
21
19

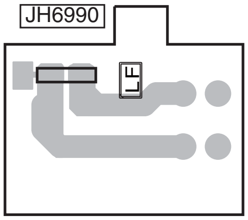
(ANP7652-C)

O ICE BUFFER ASSY


CN6800
CN6830
CN6810
CN6820
JH6800
GNDCH
SBL-
SBR-
SL-
SR-
C-
FL-
FR-
GNDCH
SBR+
SBL+
SL+
SR+
C+
FL+
FR+
R6932
R6933
R6929
R6928
R6909
R6908
R6889
R6888
R6869
R6868
R6849
R6848
R6829
R6828
R6809
R6808
C6868
C6867
C6858
C6857
C6848
C6847
C6838
C6837
C6828
C6827
C6818
C6817
C6808
C6807
AWX
T/U
VI
V+12SL
V-12SL
V-12SR
GNDSR
V+12SR
SR+
SR-
V+12SBL
V-12SBL
GNDSBL
V-12SBR
SBL+
GNDSBR
V+12SBR
SBR+
SBR-
SL-
SL+
GNDSL
R-
V+12R
L+
GNDL
V-12L
C-
V+12C
GNDCH
V-12R
GNDR
R+
V+12L
L-
C+
GNDC
V-12V

(ANP7652-C)

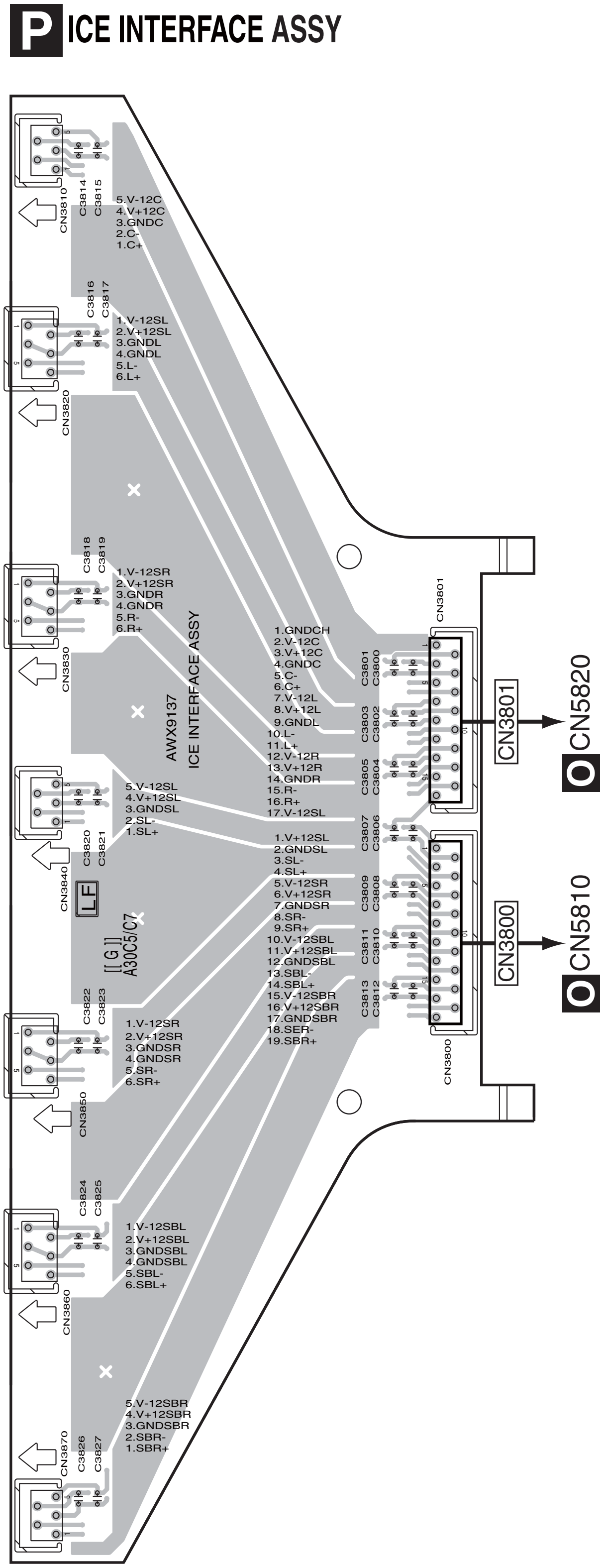
R ICE SHIELD ASSY



(ANP7652-C)

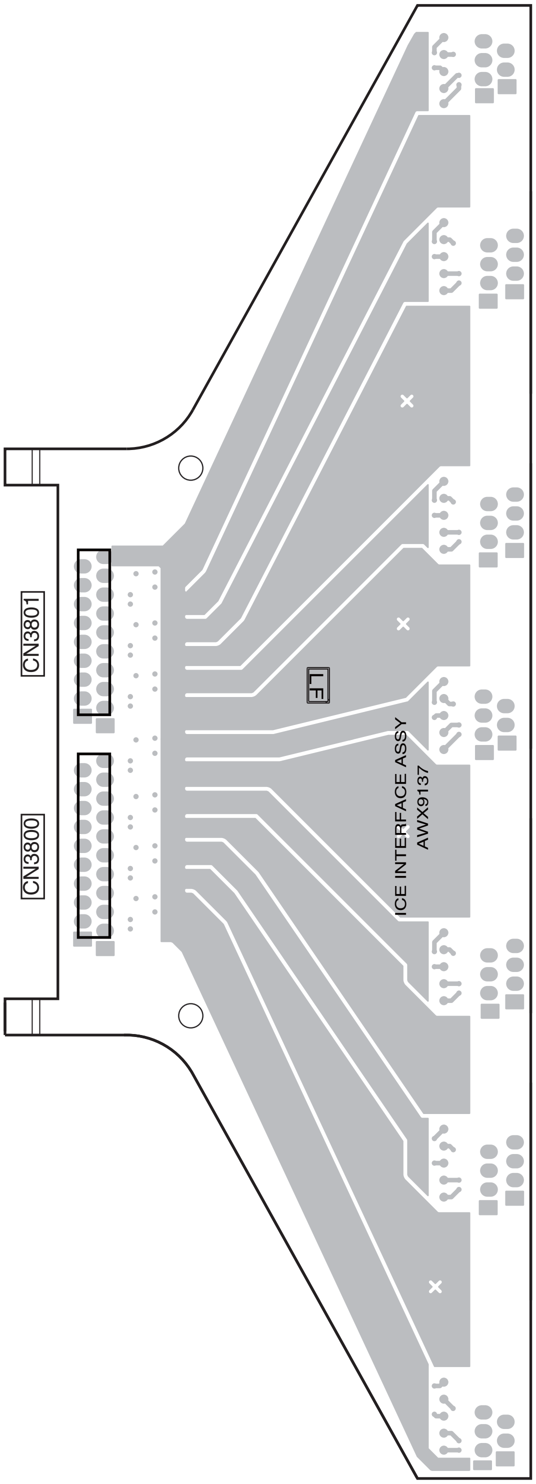
11.12 ICE INTERFACE ASSY

SIDE A **SIDE A**


P ICE INTERFACE ASSY
CN3810
C3814
C3815
5.V-12C
4.V+12C
3.GNDC
2.C-
1.C+
C3816
C3817
1.V-12SL
2.V+12SL
3.GNDL
4.GNDL
5.L-
6.L+
CN3820
C3818
C3819
1.V-12SR
2.V+12SR
3.GNDR
4.GNDR
5.R-
6.R+
CN3830
ICE INTERFACE ASSY
AWX9137
5.V-12SL
4.V+12SL
3.GNDSL
2.SL-
1.SL+
C3820
C3821
CN3840
LF
[[G]]
A30C5/C7
C3822
C3823
1.V-12SR
2.V+12SR
3.GNDSR
4.GNDSR
5.SR-
6.SR+
CN3850
C3824
C3825
1.V-12SBL
2.V+12SBL
3.GNDSBL
4.GNDSBL
5.SBL-
6.SBL+
CN3860
5.V-12SBR
4.V+12SBR
3.GNDSBR
2.SBR-
1.SBR+
CN3870
C3826
C3827
1.GNDCH
2.V-12C
3.V+12C
4.GNDC
5.C-
6.C+
7.V-12L
8.V+12L
9.GNDL
10.L-
11.L+
12.V-12R
13.V+12R
14.GNDR
15.R-
16.R+
17.V-12SL
1.V+12SL
2.GNDSL
3.SL-
4.SL+
5.V-12SR
6.V+12SR
7.GNDSR
8.SR-
9.SR+
10.V-12SBL
11.V+12SBL
12.GNDSBL
13.SBL-
14.SBL+
15.V-12SBR
16.V+12SBR
17.GNDSBR
18.SER-
19.SBR+
C3801
C3800
C3803
C3802
C3805
C3804
C3807
C3806
C3809
C3808
C3811
C3810
C3813
C3812
CN3801
CN3800
CN3801
O CN5820
CN3800
O CN5810

(ANP7649-B)

P ICE INTERFACE ASSY


CN3801
CN3800
LF
ICE INTERFACE ASSY
AWX9137

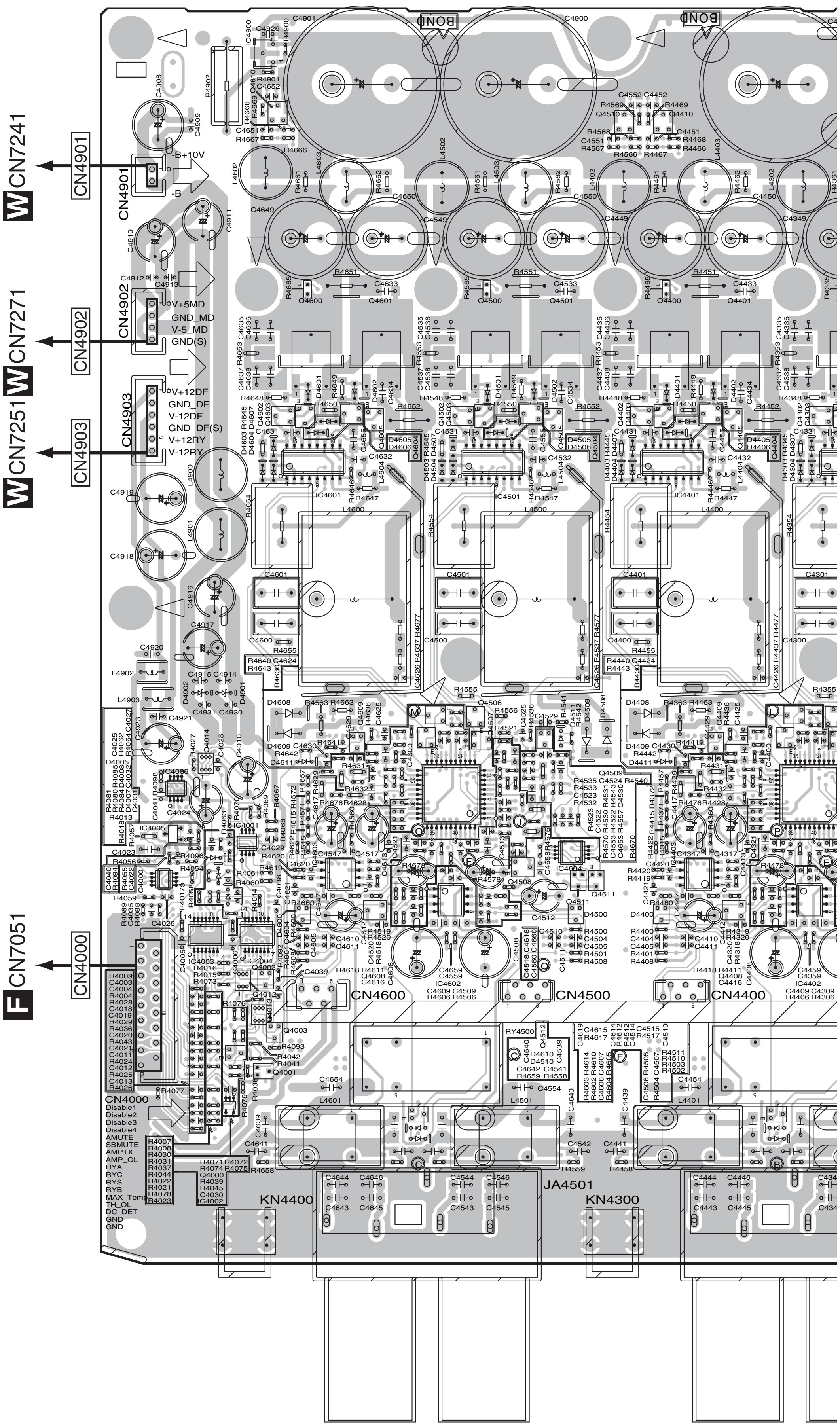
(ANP7649-B)

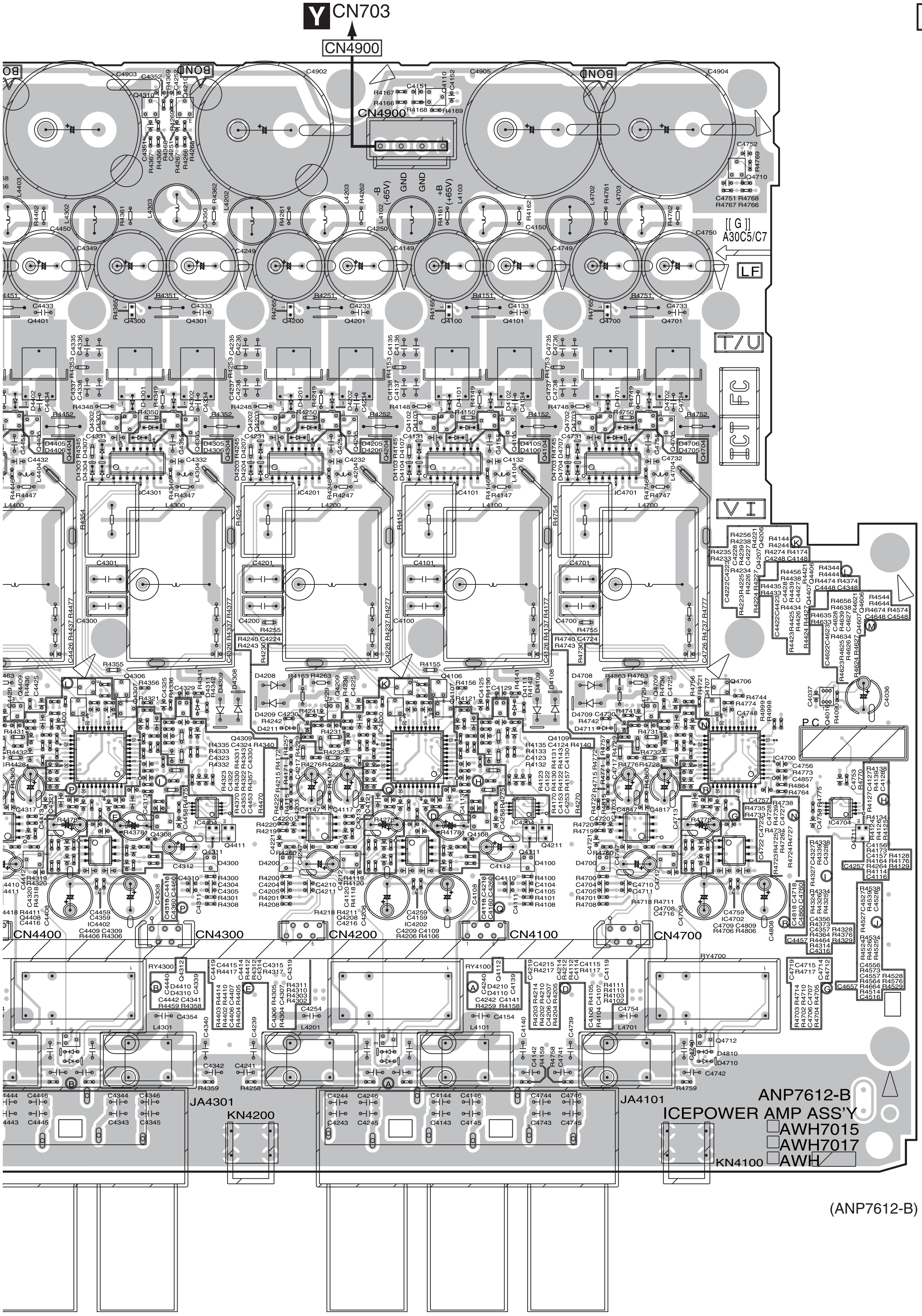
11.13 ICEPOWER AMP ASSY

SIDE A

IC	Q
IC4900	Q4110 Q4210 Q4310
	Q4610
	Q4510 Q4410
	Q4710
	Q4201 Q4200 Q4700 Q4100 Q4500 Q4300 Q4701 Q4101 Q4501 Q4301 Q4601 Q4600 Q4401 Q4400
	Q4203 Q4202 Q4605 Q4604 Q4502 Q4303 Q4103 Q4603 Q4703 Q4702 Q4503 Q4602 Q4405 Q4302 Q4102 Q4403 Q4705 Q4105 Q4505 Q4305 Q4704 Q4104 Q4504 Q4304 Q4404 Q4205 Q4204 Q4402
IC4101 IC4601 IC4701 IC4401 IC4501 IC4201 IC4301	
	Q4206
	Q4207
	Q4406
	Q4407 Q4606
	Q4607
	Q4506 Q4306 Q4409 Q4106 Q4707 Q4706 Q4209 Q4709 Q4507 Q4307 Q4609 Q4107
IC4600 IC4400 IC4200 IC4006	Q4014 Q4016 Q4509 Q4309 Q4109
IC4700	
IC4001 IC4005 IC4203 IC4703 IC4403 IC4603 IC4404 IC4604 IC4204 IC4704 IC4000	Q4711 Q4108 Q4508 Q4308 Q4211 Q4611 Q4411 Q4111 Q4511 Q4311
IC4004 IC4003 IC4402 IC4702 IC4602 IC4202	Q4002 Q4708 Q4208 Q4608 Q4408 Q4012 Q4013 Q4512 Q4003 Q4112 Q4312
	Q4001
	Q4712
	Q4000
IC4002	

Q ICEPOWER AMP ASSY


W CN7241
CN4901
B+10V
-B
W CN7271
CN4902
V+5MD
GND_MD
V-5_MD
GND(S)
W CN7251
CN4903
V+12DF
GND_DF
V-12DF
GND_DF(S)
V+12RY
V-12RY
F CN7051
CN4000
CN4000
Disable1
Disable2
Disable3
Disable4
AMUTE
SBMUTE
AMPTX
AMP_OL
RYA
RYC
RYS
RYB
MAX_Temp
TH_OL
DC_DET
GND
GND
BOND
BOND
IC4601
IC4501
IC4401
L4600
L4500
L4400
C4900
C4901
CN4600
CN4500
CN4400
RY4500
JA4501
KN4400
KN4300


Y CN703
CN4900
BOND
CN4900
-B (-65V)
GND
GND
+B (+65V)
[[G]] A30C5/C7
LF
T/U
FC
ICT
VI
P C
IC4301
IC4201
IC4101
IC4701
L4300
L4200
L4100
L4700
CN4400
CN4300
CN4200
CN4100
CN4700
RY4300
RY4100
RY4700
JA4301
JA4101
KN4200
KN4100
ANP7612-B
ICEPOWER AMP ASS'Y
☐AWH7015
☐AWH7017
☐AWH

(ANP7612-B)

SIDE B

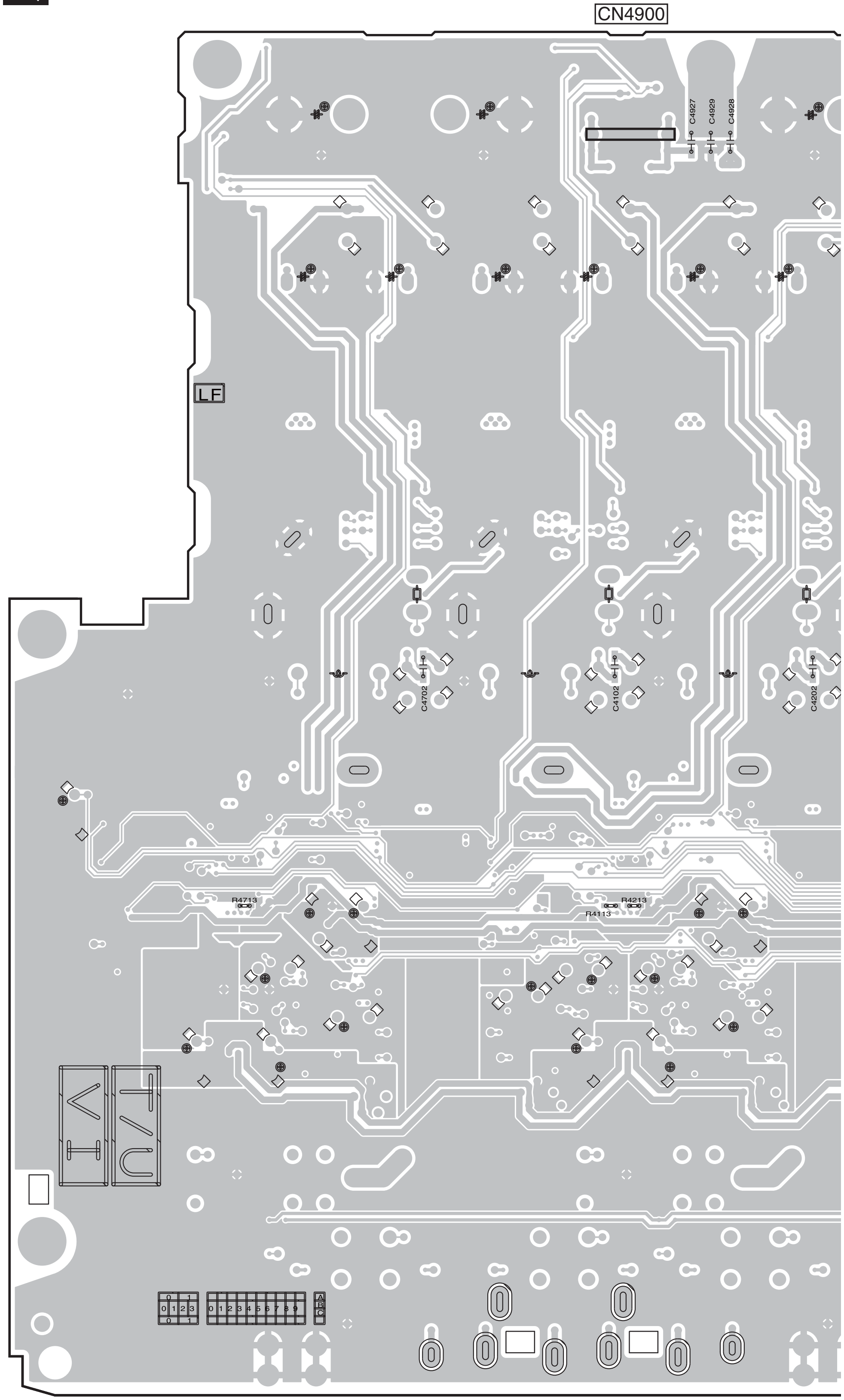
Q ICEPOWER AMP ASSY

IC Q

Q4015

Q4004
Q4007
Q4006
Q4009
Q4008 Q4011Q4005

Q4010


CN4900
C4927
C4929
C4928
LF
C4702
C4102
C4202
R4713
R4213
R4113
A
B
C

A
B
C
D
E
F

SIDE B

A

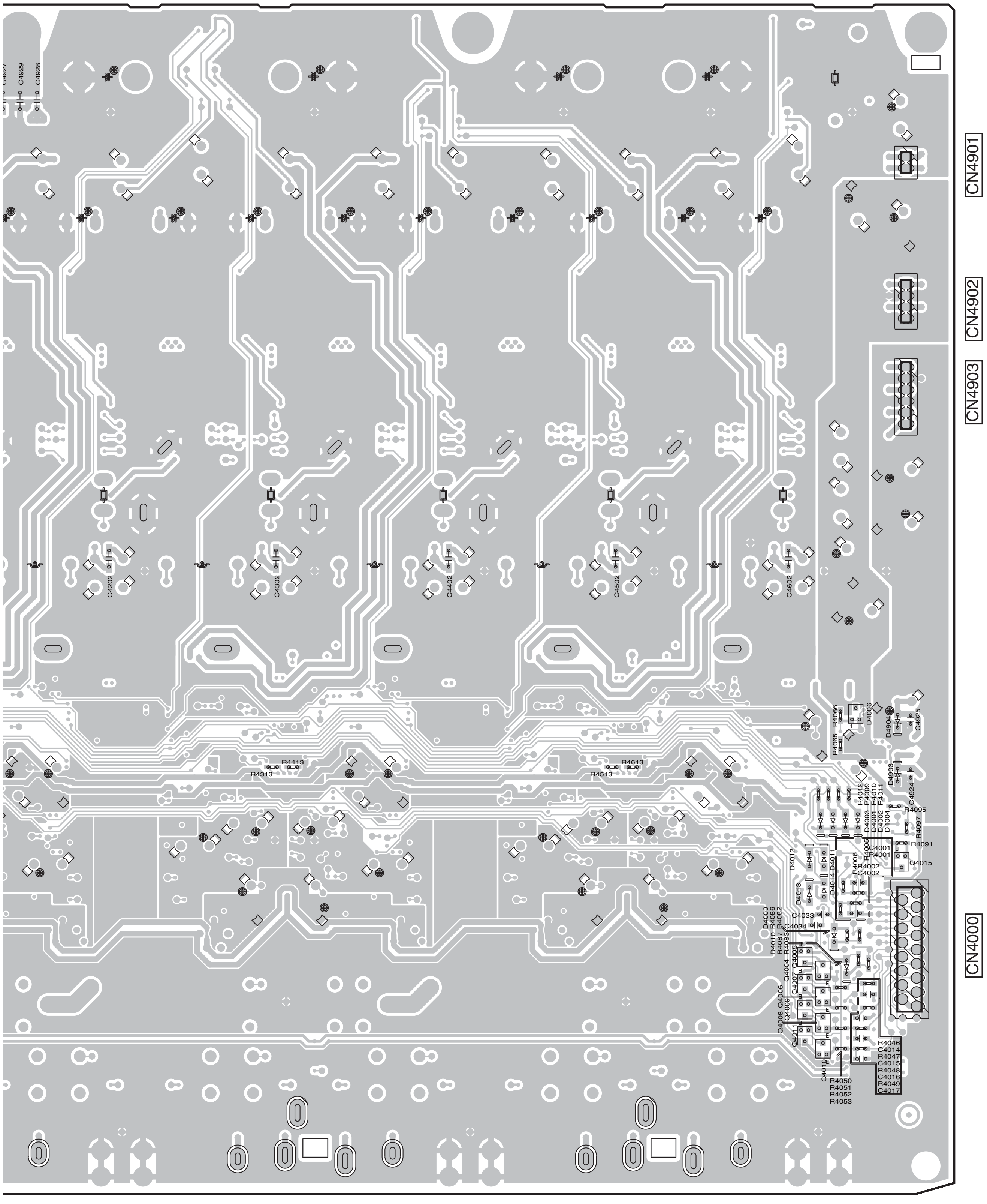
B

C

D

E

F


CN4901
CN4902
CN4903
CN4000
C4929
C4928
C4202
C4302
C4402
C4502
C4602
R4413
R4313
R4613
R4513
R4066
R4065
D4006
D4904
C4925
D4903
C4924
R4012
R4009
R4010
R4011
R4095
D4003
D4001
D4002
D4004
R4097
R4091
C4001
R4001
Q4015
R4006
R4005
R4002
C4002
D4012
D4011
D4013
D4014
D4009
R4086
R4082
D4010
R4087
R4083
C4033
C4034
Q4004
Q4005
Q4006
Q4007
Q4008
Q4009
Q4011
Q4010
R4046
C4014
R4047
C4015
R4048
C4016
R4049
C4017
R4050
R4051
R4052
R4053

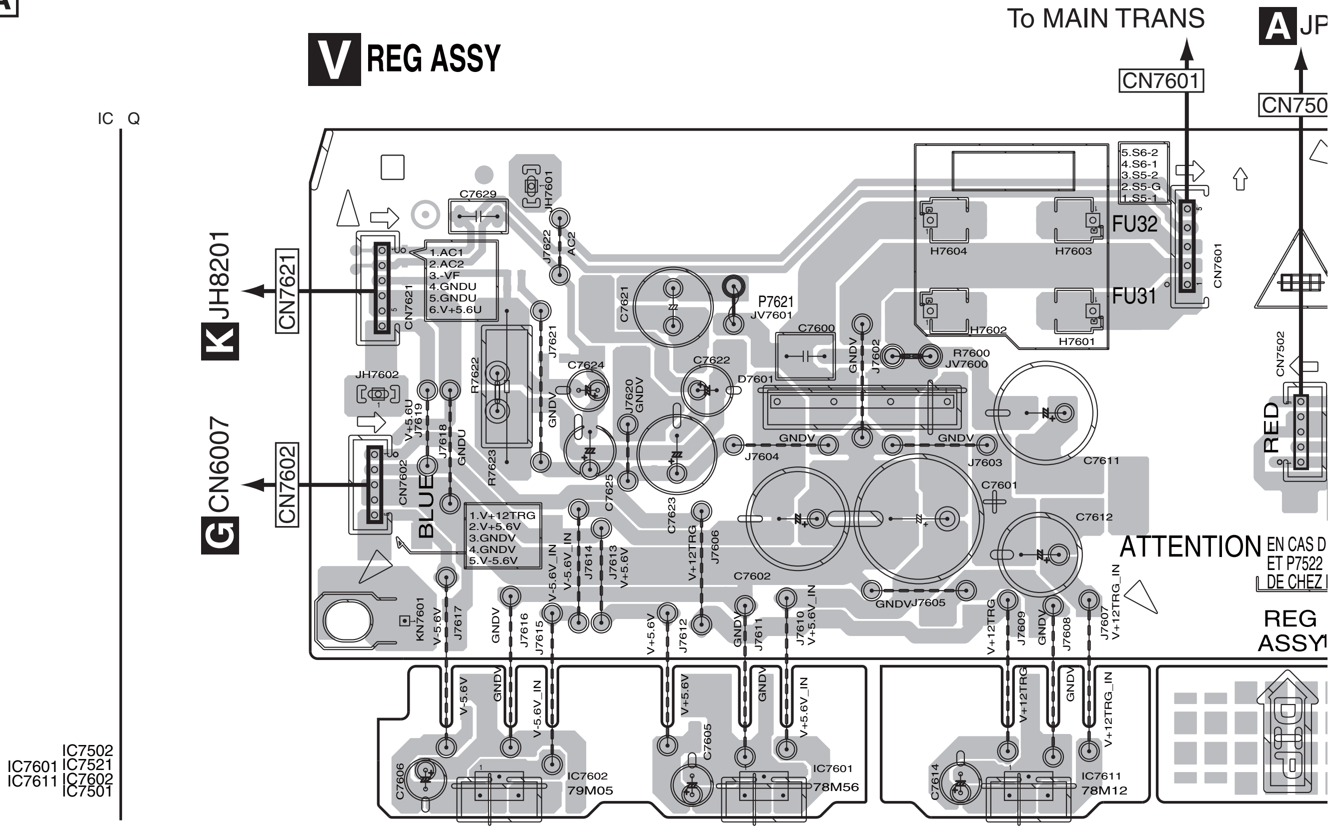
(ANP7612-B)

Q

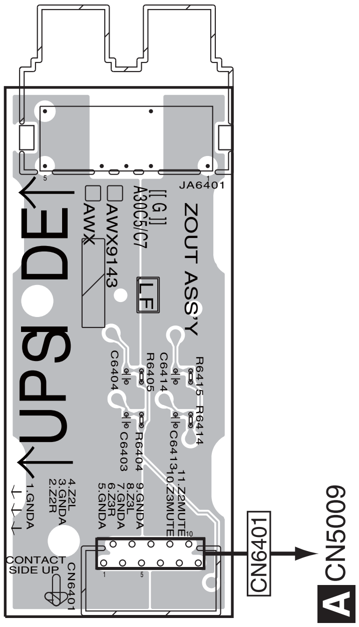
11.14 ZOUT, PRIMARY GUARD and REG ASSYS

SIDE A

V REG ASSY

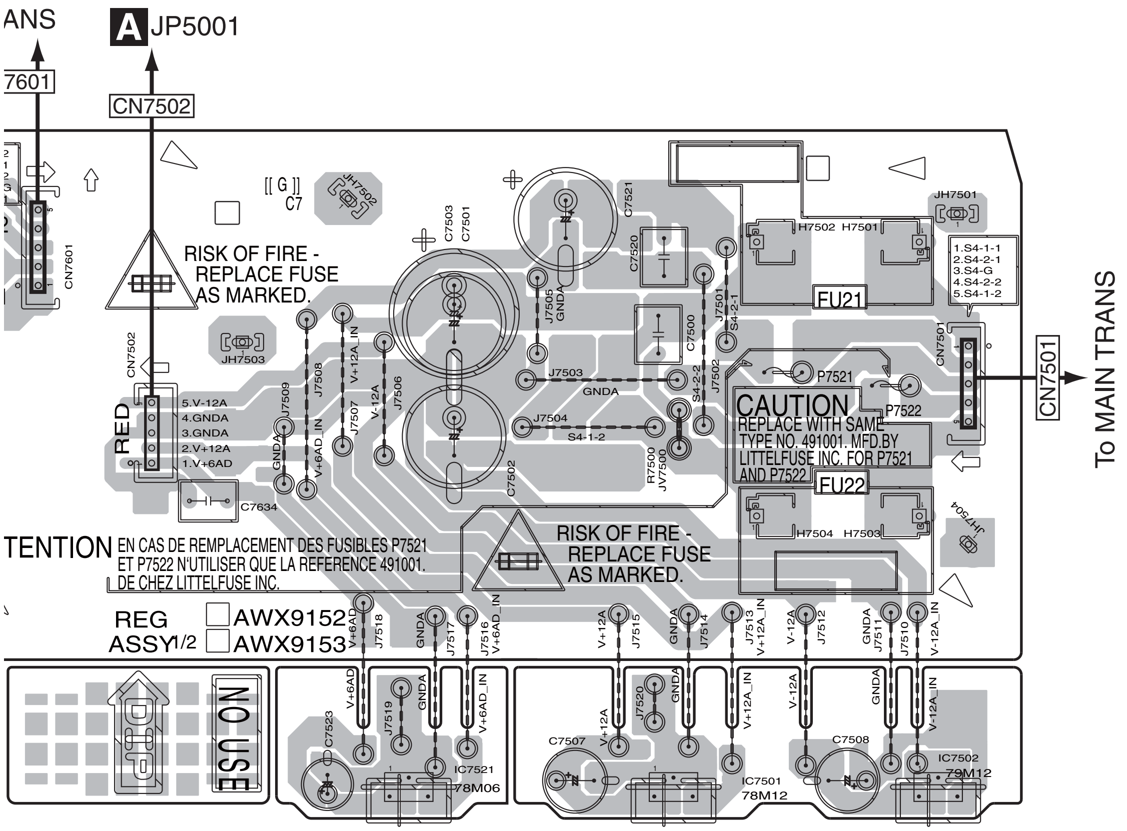

To MAIN TRANS
A JP
CN7601
CN750
IC Q
K JH8201
CN7621
G CN6007
CN7602
1.AC1
2.AC2
3.-VF
4.GNDU
5.GNDU
6.V+5.6U
5.S6-2
4.S6-1
3.S5-2
2.S5-G
1.S5-1
FU32
FU31
H7604
H7603
H7602
H7601
C7629
C7621
C7622
C7624
C7600
C7601
C7602
C7611
C7612
C7623
C7625
D7601
P7621
JV7601
R7600
JV7600
R7622
R7623
JH7602
BLUE
RED
CN7502
1.V+12TRG
2.V+5.6V
3.GNDV
4.GNDV
5.V-5.6V
ATTENTION
EN CAS D
ET P7522
DE CHEZ
REG
ASSY
KN7601
GNDV
V-5.6V
V+5.6V
V-5.6V_IN
V+5.6V_IN
V+12TRG
V+12TRG_IN
IC7602
79M05
IC7601
78M56
IC7611
78M12
C7606
C7605
C7614
IC7502
IC7601 IC7521
IC7611 IC7602
IC7501

S ZOUT ASSY


UPSIDE
ZOUT ASS'Y
AWX9143
AWX
[[G]]
A30C5/C7
LF
JA6401
C6404
C6414
R6405
R6415
R6414
R6404
C6403
C6413
11.Z2MUTE
10.Z3MUTE
9.GNDA
8.Z3L
7.GNDA
6.Z3R
5.GNDA
4.Z2L
3.GNDA
2.Z2R
1.GNDA
CONTACT SIDE UP
CN6401
CN6401
A CN5009

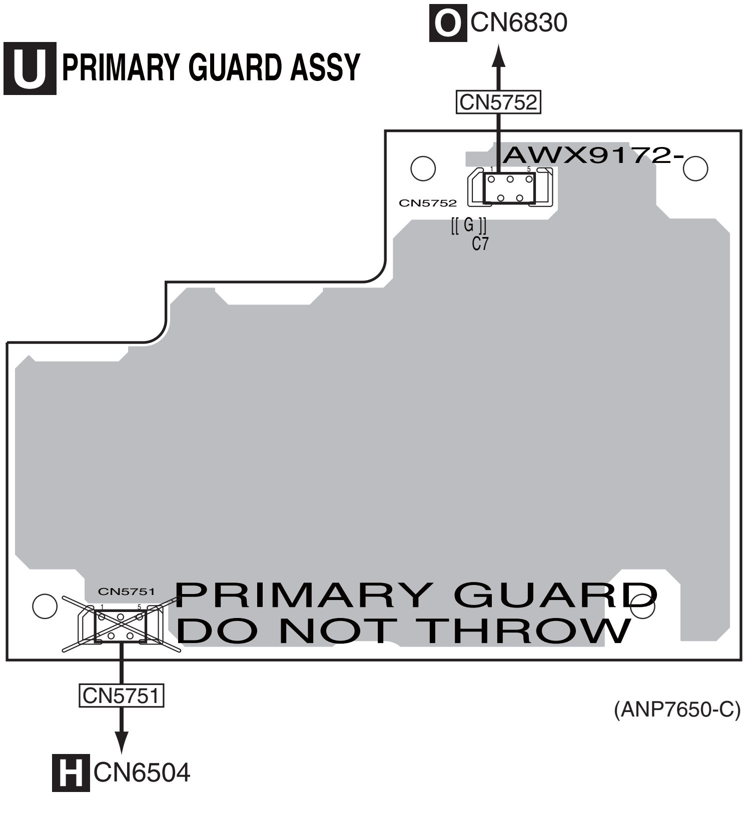
(ANP7651-B)

SIDE A


ANS
A JP5001
7601
CN7502
[[G]]
C7
JH7502
RISK OF FIRE -
REPLACE FUSE
AS MARKED.
CN7601
JH7503
CN7502
RED
5.V-12A
4.GNDA
3.GNDA
2.V+12A
1.V+6AD
J7509
GNDA
J7508
V+6AD_IN
J7507
V+12A_IN
V-12A
J7506
C7634
C7503
C7501
C7502
C7521
C7520
J7505
GNDA
J7503
GNDA
J7504
S4-1-2
C7500
J7501
S4-2-1
S4-2-2
J7502
R7500
JV7500
H7502
H7501
JH7501
1.S4-1-1
2.S4-2-1
3.S4-G
4.S4-2-2
5.S4-1-2
FU21
CN7501
P7521
P7522
CAUTION
REPLACE WITH SAME
TYPE NO. 491001. MFD.BY
LITTELFUSE INC. FOR P7521
AND P7522
FU22
H7504
H7503
JH7504
CN7501
To MAIN TRANS
TENTION
EN CAS DE REMPLACEMENT DES FUSIBLES P7521
ET P7522 N'UTILISER QUE LA REFERENCE 491001.
DE CHEZ LITTELFUSE INC.
RISK OF FIRE -
REPLACE FUSE
AS MARKED.
REG
ASSY 1/2
☐AWX9152
☐AWX9153
V+6AD
J7518
GNDA
J7517
J7516
V+6AD_IN
V+12A
J7515
GNDA
J7514
J7513
V+12A_IN
V-12A
J7512
GNDA
J7511
J7510
V-12A_IN
DIP
NO USE
V+6AD
C7523
J7519
GNDA
V+6AD_IN
IC7521
78M06
C7507
V+12A
J7520
GNDA
V+12A_IN
IC7501
78M12
V-12A
C7508
GNDA
V-12A_IN
IC7502
79M12

(ANP7654-B)

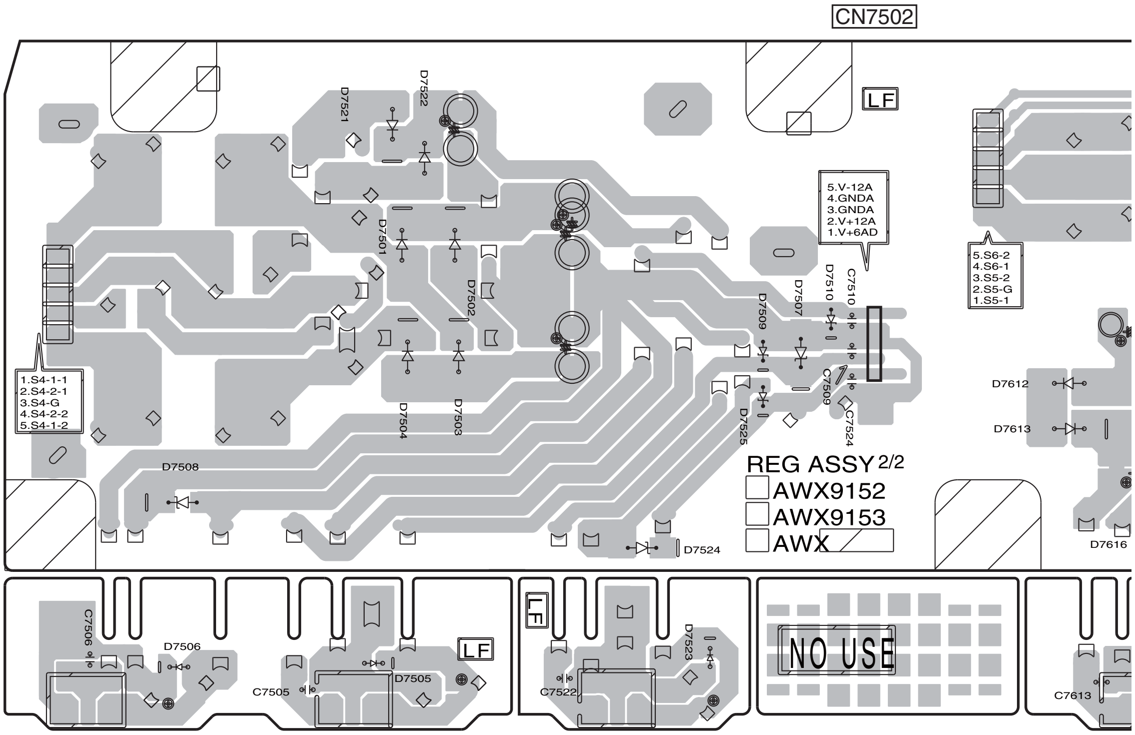
U PRIMARY GUARD ASSY


O CN6830
CN5752
AWX9172-
CN5752
[[G]]
C7
CN5751
PRIMARY GUARD
DO NOT THROW
CN5751
H CN6504

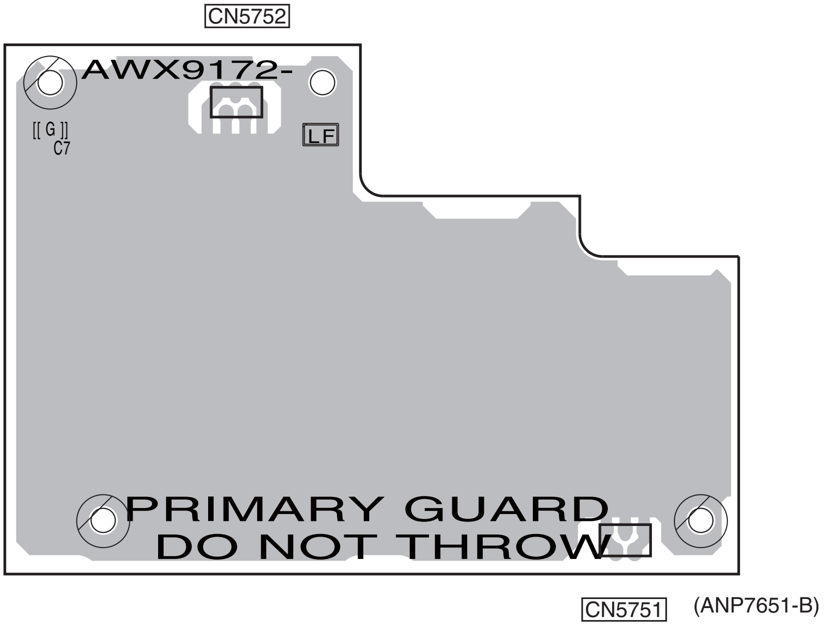
(ANP7650-C)

SIDE B

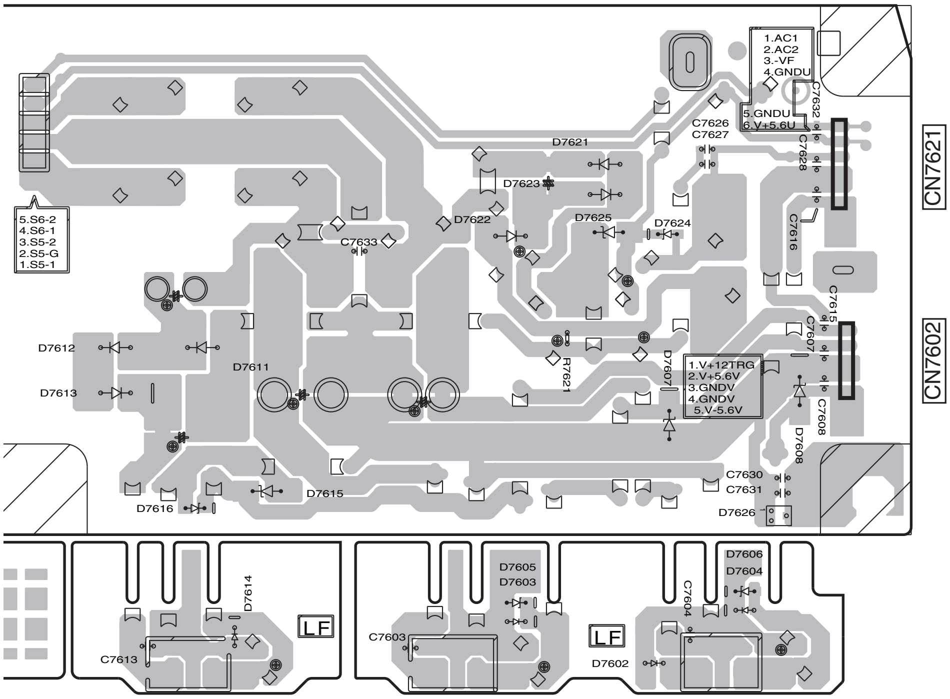
V REG ASSY


CN7502
LF
D7521
D7522
D7501
D7502
D7503
D7504
D7508
D7509
D7507
D7510
C7510
C7509
C7524
D7525
D7524
D7612
D7613
D7616
5.V-12A
4.GNDA
3.GNDA
2.V+12A
1.V+6AD
5.S6-2
4.S6-1
3.S5-2
2.S5-G
1.S5-1
1.S4-1-1
2.S4-2-1
3.S4-G
4.S4-2-2
5.S4-1-2
REG ASSY 2/2
AWX9152
AWX9153
AWX
C7506
D7506
C7505
D7505
LF
LF
D7523
C7522
NO USE
C7613

S ZOUT ASSY


CN5752
AWX9172-
[[G]]
C7
LF
PRIMARY GUARD
DO NOT THROW
CN5751
(ANP7651-B)

SIDE B

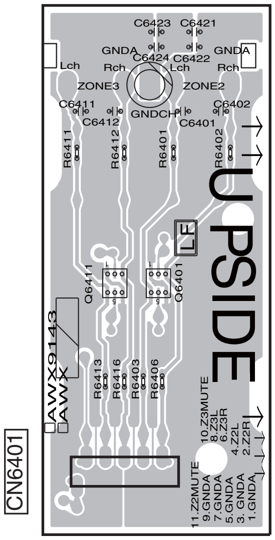

1.AC1
2.AC2
3.-VF
4.GNDU
5.GNDU
6.V+5.6U
C7632
C7626
C7627
C7628
CN7621
D7621
D7623
D7622
D7625
D7624
C7633
C7616
5.S6-2
4.S6-1
3.S5-2
2.S5-G
1.S5-1
C7615
C7607
CN7602
D7612
D7611
D7613
R7621
D7607
1.V+12TRG
2.V+5.6V
3.GNDV
4.GNDV
5.V-5.6V
C7608
D7608
C7630
C7631
D7626
D7616
D7615
D7614
LF
C7613
D7605
D7603
C7603
LF
D7602
D7606
D7604
C7604

(ANP7654-B)

U PRIMARY GUARD ASSY

IC Q

Q6411
Q6401


C6423
C6421
GNDA
GNDA
C6424
C6422
Lch
Rch
Lch
Rch
ZONE3
ZONE2
C6411
C6402
C6412
GNDCH
C6401
R6411
R6412
R6401
R6402
UPSIDE
LF
Q6411
Q6401
AWX9143
AWX
R6413
R6416
R6403
R6406
10.Z3MUTE
8.Z3L
6.Z3R
4.Z2L
2.Z2R
11.Z2MUTE
9.GNDA
7.GNDA
5.GNDA
3.GNDA
1.GNDA
CN6401

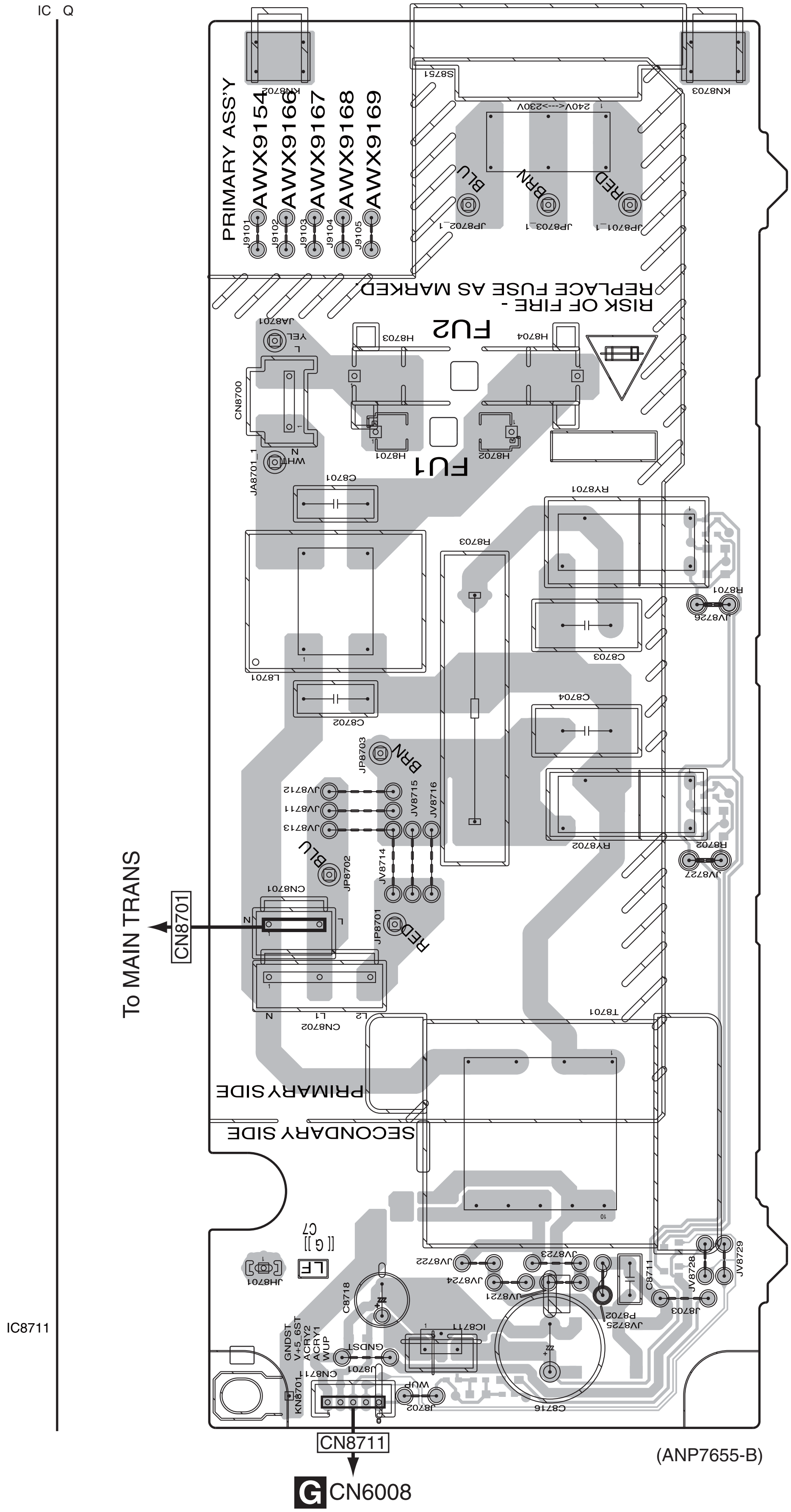
(ANP7650-C)

11.15 PRIMARY ASSY

SIDE A

SIDE A

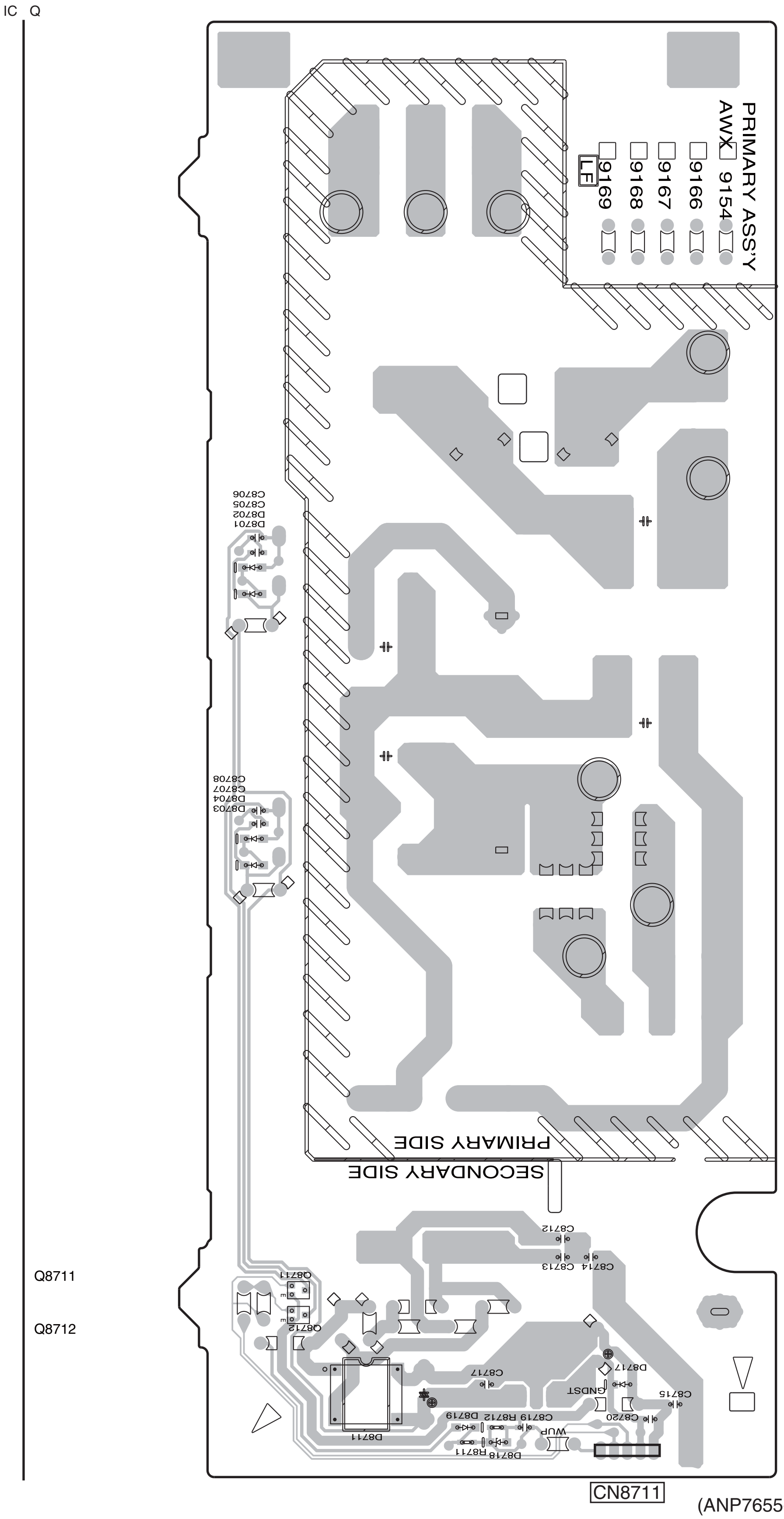
T PRIMARY ASSY


IC Q
PRIMARY ASS'Y
AWX9154
AWX9166
AWX9167
AWX9168
AWX9169
J9101
J9102
J9103
J9104
J9105
KN8702
KN8703
S8751
240V<--->230V
BLU
BRN
RED
JP8702_1
JP8703_1
JP8701_1
RISK OF FIRE -
REPLACE FUSE AS MARKED
FU2
H8703
H8704
JA8701
YEL
L
CN8700
WHT
N
JA8701_1
H8701
H8702
FU1
C8701
RY8701
R8703
L8701
C8703
R8701
JV8726
C8702
C8704
JP8703
BRN
JV8712
JV8711
JV8713
JV8715
JV8716
RY8702
R8702
JV8727
BLU
JP8702
JV8714
CN8701
N
L
JP8701
RED
To MAIN TRANS
CN8701
T8701
CN8702
N
L1
L2
PRIMARY SIDE
SECONDARY SIDE
C7
[[G]]
LF
JH8701
C8718
JV8722
JV8724
JV8723
JV8721
C8711
JV8728
JV8729
P8702
JV8725
J8703
IC8711
IC8711
GNDST
V+5_6ST
ACRY2
ACRY1
WUP
CN8711
KN8701
J8701
GNDST
WUP
J8702
C8716
CN8711

(ANP7655-B)

G CN6008

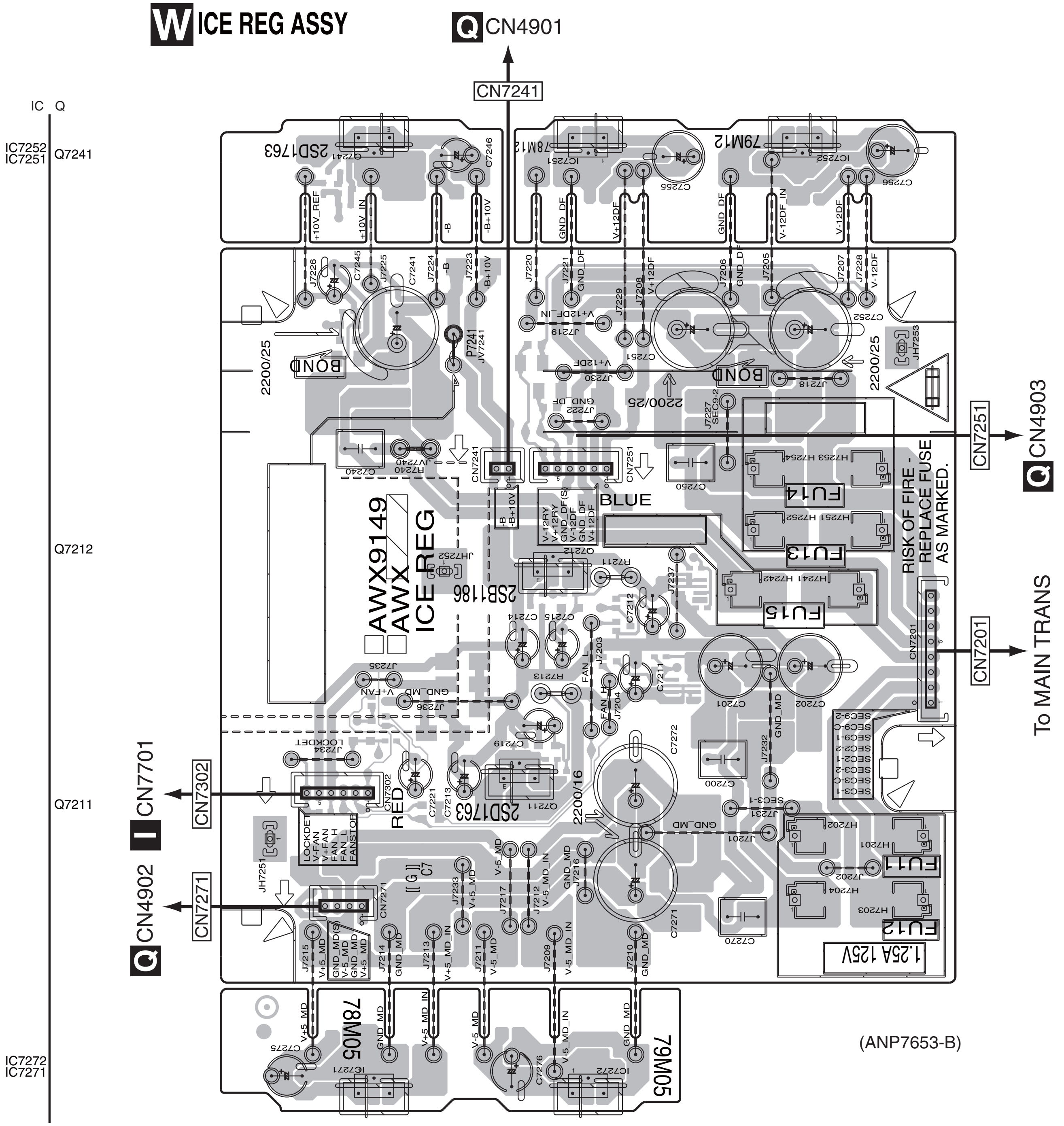
T PRIMARY ASSY


IC Q
PRIMARY ASS'Y
AWX 9154
9166
9167
9168
9169
LF
C8706
C8705
D8702
D8701
C8708
C8707
D8704
D8703
PRIMARY SIDE
SECONDARY SIDE
Q8711
Q8712
C8712
C8713
C8714
D8717
C8717
GNDST
C8715
C8720
C8719
R8712
D8719
WUP
D8711
D8718
R8711
CN8711

(ANP7655-B)

11.16 ICE REG ASSY

SIDE A **SIDE A**


W ICE REG ASSY
Q CN4901
CN7241
IC Q
IC7252
IC7251
Q7241
Q7212
Q7211
IC7272
IC7271
2SD1763
78M12
79M12
2200/25
BOND
CN7251
Q CN4903
RISK OF FIRE - REPLACE FUSE AS MARKED.
FU14
FU13
FU15
FU11
FU12
1.25A 125V
BLUE
RED
AWX9149
AWX
ICE REG
2SB1186
2200/16
CN7201
To MAIN TRANS
CN7302
I CN7701
CN7271
Q CN4902
78M05
79M05
(ANP7653-B)

SIDE B **SIDE B**

A

B

C

D

E

F

W ICE REG ASSY

IC Q

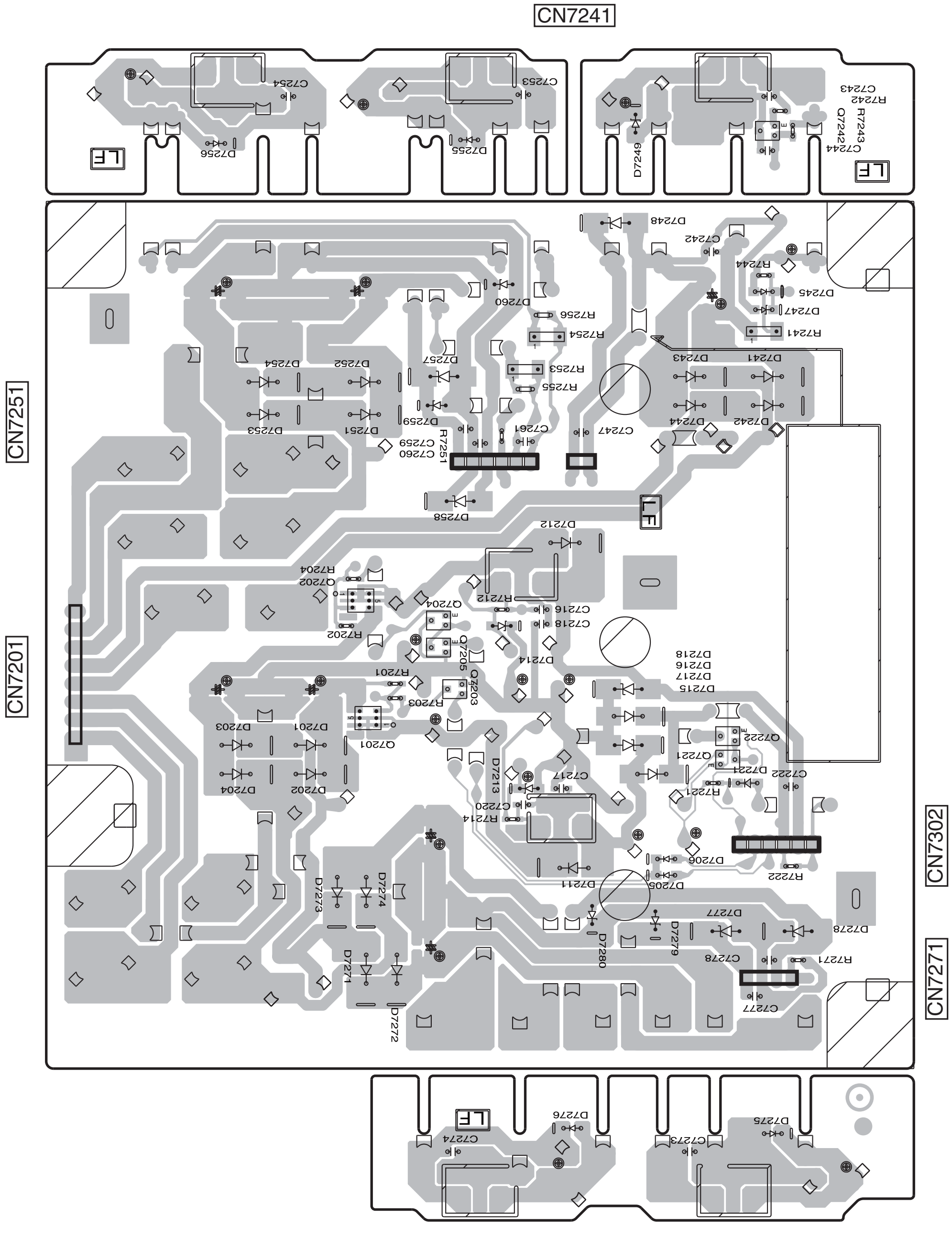
Q7242

Q7202
Q7204

Q7205

Q7203

Q7222
Q7201
Q7221


CN7241
CN7251
CN7201
CN7302
CN7271
LF
C7254
C7253
C7243
R7242
R7243
Q7242
C7244
D7249
D7256
D7255
D7248
C7242
R7244
D7245
D7247
R7241
D7260
R7256
R7254
D7257
D7254
D7252
R7253
R7255
D7243
D7241
D7253
D7251
D7259
R7251
C7259
C7260
C7261
C7247
D7244
D7242
D7258
D7212
R7204
Q7202
R7212
Q7204
C7216
C7218
R7202
Q7205
D7214
D7218
D7216
D7217
D7215
R7201
R7203
Q7203
D7203
D7201
Q7201
Q7222
Q7221
D7204
D7202
D7213
C7217
C7220
R7214
C7222
D7221
R7221
D7206
R7222
D7211
D7205
D7273
D7274
D7271
D7272
D7280
D7277
D7279
D7278
C7278
R7271
C7277
D7276
C7274
D7275
C7273

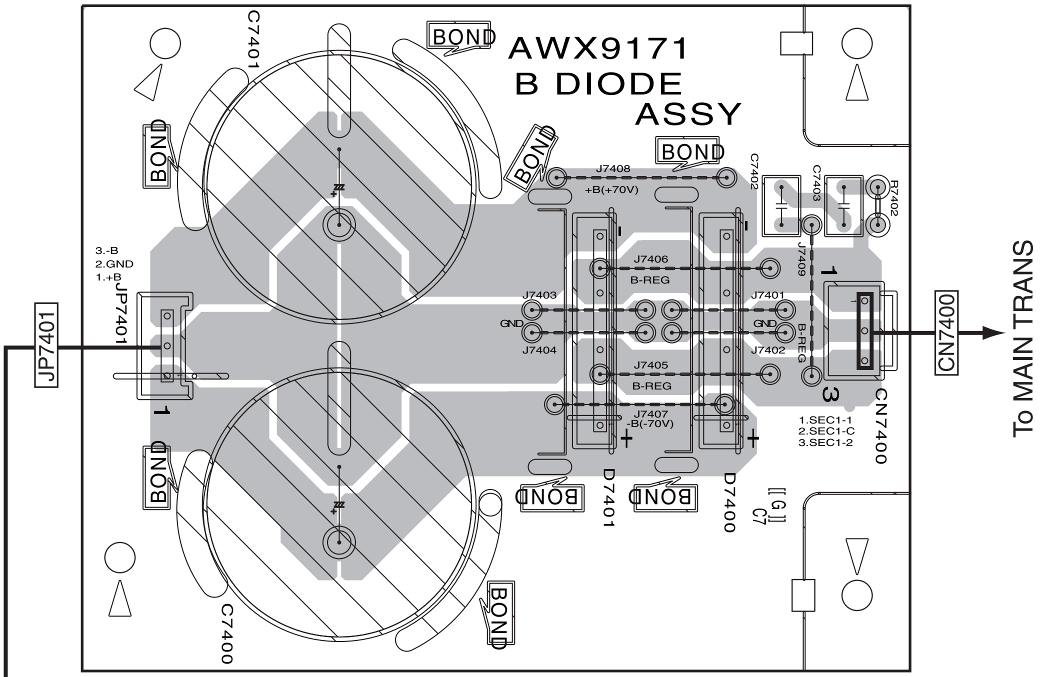
(ANP7653-B)

W **W**

11.17 B DIODE and B REG ASSYS

SIDE A

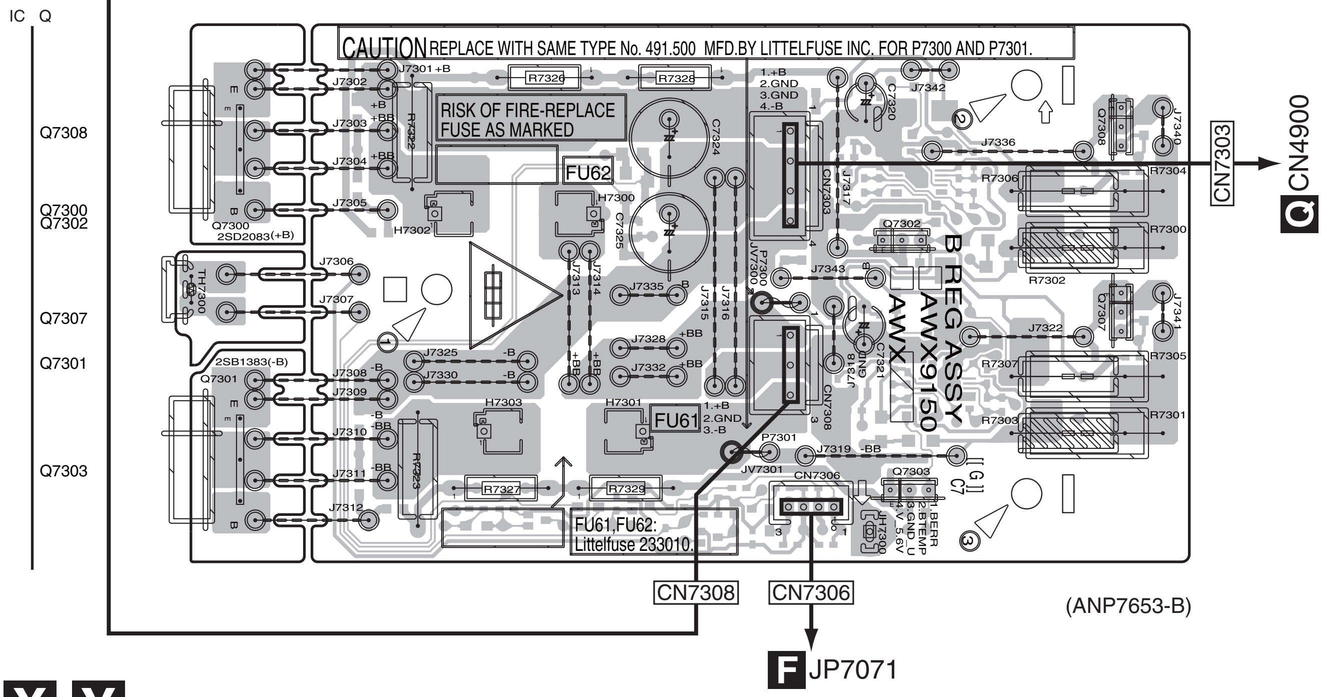
X B DIODE ASSY


AWX9171
B DIODE
ASSY
C7401
C7400
BOND
C7402
C7403
R7402
J7408
+B(+70V)
J7406
B-REG
J7403
GND
J7404
J7405
B-REG
J7407
-B(-70V)
J7401
GND
J7402
B-REG
J7409
D7401
D7400
3.-B
2.GND
1.+B
JP7401
CN7400
1.SEC1-1
2.SEC1-C
3.SEC1-2
[[G]]
C7
To MAIN TRANS

(ANP7653-B)

SIDE A

Y B REG ASSY

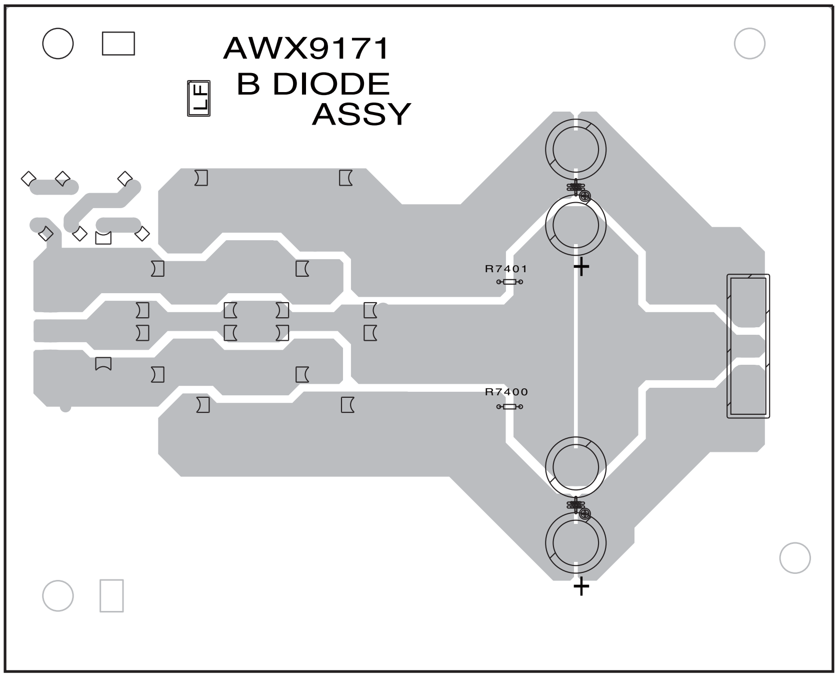

IC Q
Q7308
Q7300
Q7302
Q7307
Q7301
Q7303
CAUTION REPLACE WITH SAME TYPE No. 491.500 MFD.BY LITTELFUSE INC. FOR P7300 AND P7301.
RISK OF FIRE-REPLACE
FUSE AS MARKED
FU62
FU61
FU61,FU62:
Littelfuse 233010.
J7301 +B
J7302
J7303
J7304
J7305
J7306
J7307
J7308
J7309
J7310
J7311
J7312
R7326
R7328
R7322
R7323
R7327
R7329
H7300
H7301
H7302
H7303
C7324
C7325
C7320
C7321
J7342
J7336
J7313
J7314
J7315
J7316
J7317
J7318
J7319 -BB
J7325
J7330
J7328
J7332
J7335
J7343
J7322
J7340
J7341
Q7300
2SD2083(+B)
2SB1383(-B)
TH7300
1.+B
2.GND
3.GND
4.-B
CN7303
CN7308
1.+B
2.GND
3.-B
P7300
JV7300
P7301
JV7301
CN7306
Q7302
Q7303
JH7300
1.BERR
2.BTEMP
3.GND_U
4.V_5.6V
R7300
R7301
R7302
R7303
R7304
R7305
R7306
R7307
B REG ASSY
AWX9150
AWX
[[G]]
C7
CN7303
Q CN4900
CN7308
CN7306
F JP7071

(ANP7653-B)

X Y

SIDE B

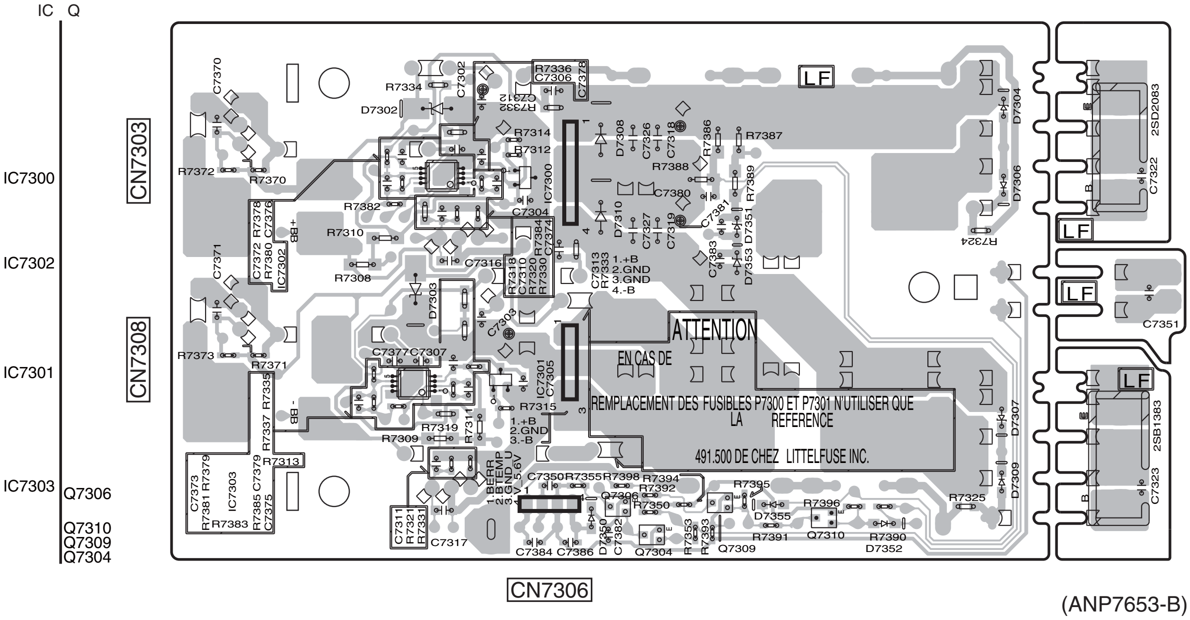
X B DIODE ASSY


AWX9171
B DIODE
ASSY
LF
R7401
R7400
+
+

(ANP7653-B)

SIDE B

Y B REG ASSY


IC Q
IC7300
IC7302
IC7301
IC7303
Q7306
Q7310
Q7309
Q7304
CN7303
CN7308
CN7306
LF
C7370
C7371
R7372
R7370
R7373
R7371
R7334
C7302
D7302
R7336
C7306
C7378
R7335
C7312
R7314
R7312
R7382
R7310
R7308
C7304
C7316
IC7300
D7308
C7326
C7318
R7386
R7387
R7388
C7380
R7389
D7310
C7327
C7319
C7381
D7351
C7383
D7353
C7313
R7333
1.+B
2.GND
3.GND
4.-B
D7303
C7303
C7377
C7307
C7301
C7305
R7315
1.+B
2.GND
3.-B
R7319
R7309
R7311
R7313
1.BERR
2.BTEMP
3.GND
4.V5.6V
C7350
R7355
R7398
R7394
R7392
Q7306
R7350
R7395
D7355
R7396
Q7310
R7390
D7352
R7391
Q7309
Q7304
R7353
R7393
D7350
C7382
C7384
C7386
C7317
C7311
R7321
R7331
C7373
R7381
R7379
R7383
IC7303
R7385
C7379
C7375
R7337
C7372
R7380
C7376
R7378
C7302
R7318
C7310
R7320
R7330
R7384
C7314
D7304
2SD2083
D7306
C7322
R7324
C7351
D7307
2SB1383
D7309
C7323
R7325
ATTENTION
EN CAS DE
REMPLACEMENT DES FUSIBLES P7300 ET P7301 N'UTILISER QUE
LA REFERENCE
491.500 DE CHEZ LITTELFUSE INC.

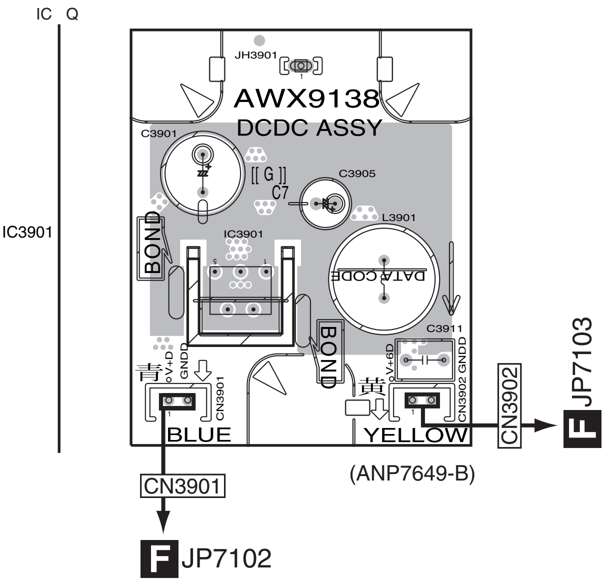
(ANP7653-B)

11.18 DCDC and HDMI RECT ASSYS

SIDE A

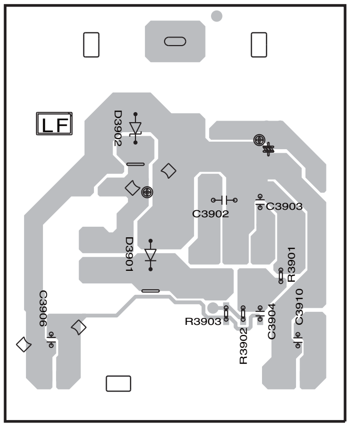
SIDE B

Z DCDC ASSY


IC Q
IC3901
JH3901
AWX9138
DCDC ASSY
C3901
[[G]]
C7
C3905
L3901
IC3901
BOND
DATA CODE
BOND
C3911
青
V+D
GNDD
CN3901
BLUE
黄
V+6D
GNDD
CN3902
YELLOW
CN3902
F JP7103
CN3901
F JP7102

(ANP7649-B)

Z DCDC ASSY

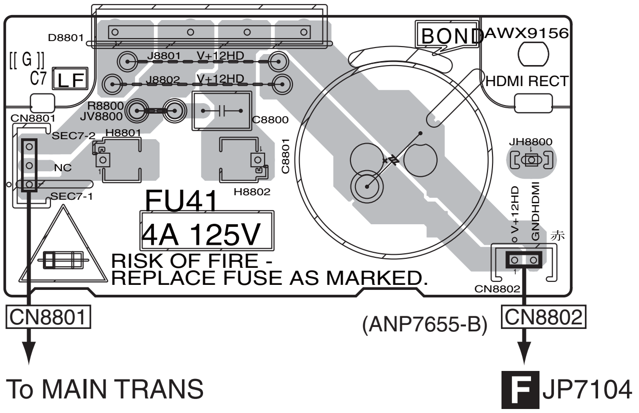

LF
D3902
C3902
C3903
D3901
R3901
C3906
R3903
R3902
C3904
C3910

(ANP7649-B)

SIDE A

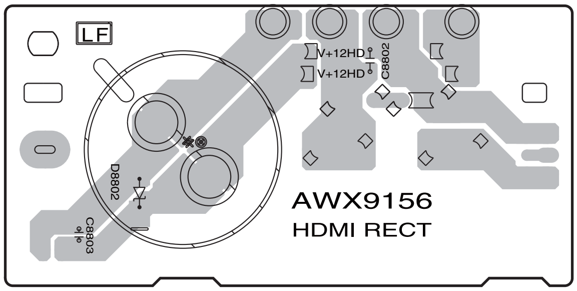
SIDE B

AA HDMI RECT ASSY


D8801
BOND
AWX9156
[[G]]
C7
LF
J8801 V+12HD
J8802 V+12HD
HDMI RECT
R8800
JV8800
C8800
CN8801
SEC7-2
H8801
NC
SEC7-1
C8801
H8802
JH8800
FU41
4A 125V
RISK OF FIRE -
REPLACE FUSE AS MARKED.
V+12HD
GNDHDMI
赤
CN8802
CN8801
CN8802
To MAIN TRANS
F JP7104

(ANP7655-B)

AA HDMI RECT ASSY


LF
V+12HD
V+12HD
C8802
D8802
C8803
AWX9156
HDMI RECT

(ANP7655-B)

12. ELECTRICAL PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω → 56 × 10^1 → 561 …… RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47 kΩ → 47 × 10^3 → 473 …… RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 …… RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 …… RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 kΩ → 562 × 10^1 → 5621 …… RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.
IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	No. Description	Part No.
	1..ICEPOWER AMP ASSY	AWH7015
NSP	1..COMPOSITE ICE ASSY	AWM8106
	2..COMPOSITE S ASSY	AWX9144
	2..ICE BUFFER ASSY	AWX9145
	2..PRE BRIDGE ASSY	AWX9146
	2..ICE SHIELD ASSY	AWX9173
NSP	1..PRIM DISPLAY ASSY	AWM8119
	2..PRIMARY ASSY	AWX9154
	2..HDMI RECT ASSY	AWX9156
	2..DISPLAY ASSY (SC-07)	AWX9158
	2..DISPLAY ASSY (SC-05)	AWX9238
	2..VOL ASSY	AWX9159
	2..POWER SW ASSY	AWX9160
	2..V-BRIDGE ASSY	AWX9161
NSP	1..DIGITAL MOTHER ASSY	AWP7057
	2..D-MOTHER ASSY (SC-07)	AWX9136
	2..D-MOTHER ASSY (SC-05)	AWX9201
	2..ICE INTERFACE ASSY	AWX9137
	2..DCDC ASSY	AWX9138
	2..H GUARD2 ASSY	AWX9147
	2..H GUARD ASSY	AWX9174

Mark	No. Description	Part No.
NSP	1..COMPONENT FIN ASSY	AWQ7058
	2..COMPONENT ASSY (SC-07)	AWX9141
	2..COMPONENT ASSY (SC-05)	AWX9211
	2..FRONT IN ASSY	AWX9142
	2..ZOUT ASSY	AWX9143
NSP	1..INTERFACE REG ASSY	AWR7067
	2..INTERFACE ASSY	AWX9148
	2..ICE REG ASSY	AWX9149
	2..B REG ASSY	AWX9150
	2..B DIODE ASSY	AWX9171
NSP	1..FBRIDGE REG ASSY	AWR7068
	2..REG ASSY	AWX9152
	2..FRONT BRIDGE ASSY	AWX9155
NSP	1..AUDIO ASSY	AWR7070
	2..AUDIO ASSY	AWX9139
	2..232C & CONTROL ASSY	AWX9140
	2..PRIMARY GUARD ASSY	AWX9172
	1..HDMI NETWORK ASSY (SC-07)	AWX9135
	1..HDMI NETWORK ASSY (SC-05)	AWX9190
	1..FM/AM TUNER UNIT	AXX7250

CONTRAST OF PCB ASSEMBLIES

G COMPONENT ASSY

AWX9141 and AWX9211 are constructed the same except for the following:

Mark	Symbol and Description	AWX9141	AWX9211
	IC6008 Video IC	NJM2581M	Not used
	IC6002, IC6004 Multiplexer(4chx2)	TC74LVX4052FT	Not used
	JA6005 Pin Jack(3p)	Not used	AKB7203
	JA6003 Pin Jack(6p)	AKB7204	Not used
	R6043, R6044, R6045	RS1/16S750J	Not used
	R6108	RS1/16S103J	Not used
	C6050, C6051, C6055-C6057	CEAT101M10	Not used
	C6058, C6059, C6148, C6151, C6158, C6161	CKSRYB105K10	Not used
	C6060, C6061, C6149, C6150, C6159, C6160	CCSRCH102J50	Not used
	C6131-C6136	CKSRYB103K50	Not used

K DISPLAY ASSY

AWX9158 and AWX9238 are constructed the same except for the following:

Mark	Symbol and Description	AWX9158	AWX9238
	R8015, R8084	Not used	RS1/16S0R0J

PCB PARTS LIST FOR SC-07/KUXJ/CA UNLESS OTHER WISE NOTED

A AUDIO ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 5001,5282,5302,5401		NJM4565MD
	IC 5201		BD3473KS2
	IC 5221		BD3814FV
	IC 5255,5351		TC4053BFN
	IC 5301		TC4066BFN
	Q 5269,5301,5351		RT1N241M
	Q 5302		RT1P241M
	Q 5401,5402		2SK208
	Q 5431		IMX25
	Q 5451		RT3T22M
	Q 5453		RT1N140M
⚠	Q 5501		2SD1858X
⚠	Q 5502		2SB1238X
⚠	Q 5601		2SD1664
	D 5201,5301,5302		1SS302
	D 5401,5402,5451,5452		1SS352
	D 5501,5502		UDZS7R5(B)
	D 5602		UDZS10(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
	JA 5001,5002	PIN JACK(4P)	XKB3017
	JA 5004-5009	PIN JACK(4P)	XKB3017
	RY 5451	RELAY	VSR1017
	CN 5002	CONNECTOR	CKS3384
	CN 5003	CONNECTOR	CKS3386
	CN 5004	13P CONNECTOR	52044-1345
	CN 5005	17P CONNECTOR	52044-1745
	CN 5006	21P SOCKET	XKP3081
	CN 5007	9P CONNECTOR	52044-0945
	CN 5008	11P CONNECTOR	52044-1145
	CN 5009	CONNECTOR	CKS3376
	JH 5001	PCB BINDER	VEF1040
	JP 5001	5P HOUSING ASSY	ADX7653

RESISTORS

Mark	No.	Description	Part No.
	R 5413,5414		RD1/4MUF330J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 5003,5004,5017,5018		CEAT100M50
	C 5007,5008,5019,5020		CEAT470M16
	C 5011,5012		CKSRYB822K50
	C 5013-5016		CKSRYB122K50
	C 5021,5022,5232,5234		CKSRYB104K16
	C 5035,5038,5055,5056		CEAT220M50
	C 5045,5046,5115,5116		CEAT100M50
	C 5075,5076,5085,5086		CEAT220M50
	C 5095,5096,5105,5106		CEAT220M50
	C 5125,5126,5145,5146		CEAT220M50
	C 5135,5136,5221,5222		CEAT100M50
	C 5155,5156,5165,5166		CEAT220M50
	C 5175,5176,5185,5186		CEAT220M50
	C 5202,5204,5231,5233		CEAT470M16
	C 5205,5206,5235,5236		CCSRCH101J50
	C 5207,5208		CEAT220M50
	C 5209,5210		CFHXSQ103J16
	C 5223,5224,5227,5228		CEAT2R2M50
	C 5225,5226,5271-5278		CEAT100M50
	C 5265,5266,5285,5286		CKSRYB103K50
	C 5282,5303,5304		CCSRCH101J50
	C 5290,5503,5504		CEAT100M50
	C 5301,5302,5305,5306		CKSRYB103K50
	C 5307,5308		ACH7196
	C 5351,5352,5421,5423		CKSRYB103K50
	C 5356,5357,5508,5510		CCSRCH102J50
	C 5401,5402		CEAT1R0M50
	C 5403,5404		CCSRCH221J50
	C 5409,5410		CEAT471M16
	C 5411,5412		CEAT470M16
	C 5422,5424		CEAT470M25
	C 5431,5432,5601,5605		CKSRYB103K50
	C 5451,5603,5606		CEAT101M16
	C 5501,5502		CEAT2R2M50
	C 5511		CCSRCH102J50
	C 5602,5708,5710,5712		CKSRYB104K16
	C 5701,5703,5709,5711		CKSRYB471K50
	C 5702,5704		CKSRYB104K50
	C 5705		CKSRYB103K50
	C 5713,5715,5719		CKSRYB471K50
	C 5714,5718		CKSRYB104K16

B D-MOTHER ASSY (SC-07)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 2001		PEG489B8
	IC 2002,2003,2203,2204		TC4094BFN
	IC 2005		BU4842F
	IC 2006		TC74LCX244FTS1
	IC 2007,2008,2406		TC74VHCT125AFTS1
	IC 2009,2010		TC74VHCT541AFTS1
⚠	IC 2011,2412		NJM2880U1-33
	IC 2201		PEG396A
	IC 2202		AYW7256
	IC 2205,2211,2408,2409		TC74VHC125FTS1
	IC 2206		TC74VHC32FTS1
	IC 2207,2407,2709,2805		TC74VHC08FTS1
	IC 2208		TC74VHCT08AFTS1
	IC 2209		TC74VHC04FTS1
	IC 2210		TC74VHC00FTS1
	IC 2213		TC7SH04FUS1
	IC 2401		AK4114VQ
	IC 2402-2404,2803		TC74LCX157FTS1
	IC 2410,2411,2707		TC7SH08FUS1
⚠	IC 2413,2983		NJM2845DL1-05

Mark	No.	Description	Part No.
IC	2414,2602,2603		TC74VHC125FTS1
IC	2601		BU9450KV
⚠ IC	2604		AAT4618IGV-0.5-1
IC	2701		DSPA56720AG
IC	2702		AYW7234
IC	2703		HY57V641620FTP-6
IC	2704,2705		TC74LCX573FTS1
⚠ IC	2706		NJM2872BF33
⚠ IC	2710		NJM2846DL3-33
⚠ IC	2711		PQ1LAX95MSPQ
⚠ IC	2712		RP131H101D
⚠ IC	2713		NJM2846DL3-25
IC	2714		TC7SH32FUS1
IC	2801		DSPC56371AF180
IC	2802		PDC168A8
IC	2804,2806		TC74LCX08FTS1
IC	2807		TC74VHC126FTS1
IC	2808		TC7WH157FU
IC	2901,2902,3401		NJM4565MD
IC	2951		PCM1804DB
⚠ IC	2981		NJM2391DL1-33
⚠ IC	2982		NJM2885DL1-33
IC	3001,3101,3201,3301		RNB4580F
IC	3051,3151,3251,3351		SRC4190IDB
IC	3052,3152,3252,3352		WM8740SEDS
IC	3053,3153,3253,3353		TC7WH125FU
IC	3451		AK4387ET
Q	2005,2008		RT1N241M
Q	2006		RT3P22M
Q	2007		2SA1366
Q	2201		RT1N141M-11
Q	2202		2SA1602A
Q	2203		RT1P431M
Q	2205,2207,2208		RT1P241M
D	2001,2003,2951,2952		MC2848-11
D	2002		RB520S-30
⚠ D	2004,2005		MC2848-11
D	2201		1SS357
D	2601,2602		HZU5R6(B2)
D	2701-2704		1SR154-400
D	2953,2954		MC2846-11

MISCELLANEOUS

Mark	No.	Description	Part No.
L	2001	CHIP SOLID INDUCTOR	QTL1013
L	2002,2003	CHIP SOLID INDUCTOR	ATL7002
L	2404-2409	CHIP SOLID INDUCTOR	QTL1013
L	2411-2416	CHIP SOLID INDUCTOR	QTL1013
L	2601	CHIP SOLID INDUCTOR	ATL7002
L	2602,2603	CHIP SOLID INDUCTOR	QTL1013
L	2701	CHIP SOLID INDUCTOR	QTL1013
L	2703-2711	CHIP SOLID INDUCTOR	QTL1013
L	2713	CHIP SOLID INDUCTOR	QTL1013
L	2801-2804	CHIP SOLID INDUCTOR	QTL1013
L	2806-2811	CHIP SOLID INDUCTOR	QTL1013
L	2951,2952	CHIP SOLID INDUCTOR	QTL1013
L	3051-3054	CHIP SOLID INDUCTOR	QTL1013
L	3081	CHIP SOLID INDUCTOR	QTL1013
L	3151-3154	CHIP SOLID INDUCTOR	QTL1013
L	3181	CHIP SOLID INDUCTOR	QTL1013
L	3251-3254	CHIP SOLID INDUCTOR	QTL1013
L	3281	CHIP SOLID INDUCTOR	QTL1013
L	3351-3354	CHIP SOLID INDUCTOR	QTL1013
L	3381,3451	CHIP SOLID INDUCTOR	QTL1013
JA	2401	PIN JACK(3P)	AKB7205
JA	2402-2405	OPT. LINK IN	AKS7001
JA	2406,2407	OPT. LINK OUT	AKS7002
JA	2601	4P SOCKET	AKP7201
KN	2001,2201	WRAPPING TERMINAL	VNF1084
KN	2401	SCREW PLATE	VNE1948
X	2001	RESONATOR (24.000 MHz)	CSS1716
X	2201	CERAMIC RESONATOR (15.7MHz)	ASS7087
X	2601	CRYSTAL RESONATOR (45.1584 MHz)	ASS7065
X	2701	CRYSTAL OSCILLATOR (24.576 MHz)	ASS7072
X	2702	CRYSTAL OSCILLATOR (22.5792 MHz)	ASS7071
CN	2001	16P CONNECTOR	VKN1420
CN	2002	29P CONNECTOR	VKN1844
CN	2003	22P CONNECTOR	RKN1063
CN	2005,2007,2902	PLUG	CKS1764
CN	2006	7P SOCKET	XKP3074
CN	2008,2903	PLUG	CKS1761
CN	2401	PLUG(3P)	KM200NA3
CN	2402	23P SOCKET	XKP3082
CN	2403	CONNECTOR	CKS3815
CN	2901	PLUG	CKS1758
JH	2001	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	2001-2003,2005-2007		RS1/16S104J
R	2011-2013,2035,2202		RS1/16S473J
R	2015,2027,2032,2039		RS1/16S104J
R	2018,2209		RS1/16S512J
R	2021,2026,2028,2030		RAB4CQ101J
R	2031,3003-3006		RS1/16S222J
R	2033,2034		RAB4CQ471J
R	2036,2049,2207,2214		RAB4CQ101J
R	2041,2043,2045,2046		RS1/16S104J
R	2047,3117,3118,3217		RS1/16S474J
R	2048,2050,2066,2067		RS1/16S104J
R	2069,2255,2610,2615		RS1/16S104J
R	2072,2103,2105,2107		RAB4CQ473J
R	2073		RS1/16S472J
R	2114,2118,2241		RAB4CQ473J
R	2140,2141,2270,2271		RS1/16S0R0J
R	2203,2717-2719,2721		RAB4CQ220J
R	2210,2237,2466,2467		RS1/16S101J
R	2211,2217,2229,2230		RS1/16S473J
R	2216,2218,2223,2226		RAB4CQ101J
R	2233,2235,2246		RS1/16S473J
R	2234,2425,2730,2812		RAB4CQ101J
R	2401-2403		RS1/16S750J
R	2404-2406,2901-2904		RS1/16S220J
R	2423		RS1/16SS1802F
R	2609,2795,2796		RS1/16S101J
R	2629,2715,2746,2802		RAB4CQ470J
R	2714,2905,2906,2909		RS1/16S103J
R	2722,2761,2762,2765		RAB4CQ220J
R	2747,2803		RAB4CQ103J
R	2759,2760,2763,2764		RAB4CQ221J
R	2766		RAB4CQ220J

Mark	No. Description	Part No.
R	2789	RS1/16SS1000F
R	2790	RS1/16SS1202F
R	2791	RS1/10S0R0J
R	2822,3455	RAB4CQ101J
R	2907,2908,2911,2912	RS1/16S682J
R	2910	RS1/16S103J
R	2913-2918,3108,3116	RS1/16S392J
R	2919,2920	RS1/16S822J
R	2921,2922	RS1/16S911J
R	3001,3002,3009,3010	RS1/16S181J
R	3007,3008,3015,3016	RS1/16S202J
R	3011-3014,3103-3106	RS1/16S222J
R	3017,3018,3051,3151	RS1/16S0R0J
R	3021,3022,3119,3120	RS1/16S221J
R	3101,3109,3201,3202	RS1/16S681J
R	3102,3110	RS1/16S181J
R	3107,3112,3114,3115	RS1/16S122J
R	3111,3113,3211-3214	RS1/16S272J
R	3203-3206,3303-3306	RS1/16S222J
R	3207,3208,3215,3216	RS1/16S122J
R	3209,3210,3301,3302	RS1/16S681J
R	3218,3317,3318,3413	RS1/16S474J
R	3219,3220,3319,3320	RS1/16S221J
R	3251,3351,3456	RS1/16S0R0J
R	3307,3308,3315,3316	RS1/16S122J
R	3309,3310	RS1/16S681J
R	3311-3314	RS1/16S272J
R	3401,3402	RS1/16S223J
R	3403,3404	RS1/16S302J
R	3405,3406,3409,3410	RS1/16S332J
R	3407,3408	RS1/16S392J
R	3411,3412	RS1/16S221J
R	3414	RS1/16S474J
R	3458	RS1/16S4R7J
Other Resistors		RS1/16SS###J

CAPACITORS

Mark	No. Description	Part No.
C	2001,2040,3060,3068	CKSRYB105K16
C	2002,2004,2006,2011	CKSRYB104K16
C	2003,2014,2015,2039	CKSRYB471K50
C	2005,2007,2030,2032	CKSRYB102K50
C	2008,2738,2817	CKSSYB103K16
C	2009	ACH7298
C	2012	CKSRYB472K50
C	2013,2220,2221,2954	CKSRYB103K50
C	2016,2047,3001,3002	CCSRCH102J50
C	2017,2018,2020-2024	CKSRYB104K16
C	2019,2026,2211-2215	CKSSYB104K10
C	2025	CEAT331M10
C	2027,2454,2457,2762	CKSQYB225K10
C	2028	CKSRYB473K50
C	2029,2031,2038,2041	CKSRYB104K16
C	2037,2929,2952,2984	CEHAZL101M25
C	2046,2209,2210,2217	CKSRYB104K16
C	2050-2054,2056-2065	CCSSCH100D50
C	2201,2426,2827	ACH7272
C	2202,2204,2205,2208	CCSSCH471J16
C	2206,2965,3052,3071	CCSRCH471J50
C	2216	CEAT102M10
C	2222,2224-2226,2228	CKSSYB104K10
C	2227,2402,2404	CKSRYB104K16
C	2230,2414,2421,2425	CKSSYB104K10
C	2406-2413,2417,2450	CKSRYB104K16
C	2415,2429,2431,2433	CKSSYB471K50
C	2416,2419,2422,2458	CEHAZL101M10
C	2418,2420,2424,2747	CCSSCH471J16
C	2423	CKSRYB474K10
C	2428,2430,2432,2436	CKSSYB104K10
C	2437,2439,2447,2449	CKSSYB471K50
C	2438,2440,2448,2452	CKSSYB104K10
C	2451,2785	ACH7273
C	2453,2456,2604,2606	CKSRYB104K16
C	2455,2732,2781,2783	CEHAZL221M10
C	2461,2464,2608-2610	CKSSYB104K10
C	2462,2463,2615,2701	CKSSYB471K50
C	2601	CKSRYB105K10
C	2603,2605	CEAT101M10
C	2607	CKSRYB471K50
C	2611,2780,2901,2902	CKSRYB104K16
C	2612	CCSSCH150J50
C	2613	CCSSCH120J50
C	2614,2616,2626-2629	CKSSYB104K10
C	2702,2705,2708,2710	CKSSYB104K10
C	2703,2704,2706,2707	CKSSYB471K50
C	2709,2711,2713	CKSSYB471K50
C	2712,2714,2718,2720	CKSSYB104K10
C	2715-2717,2719,2721	CKSSYB471K50
C	2722,2724,2726,2727	CKSSYB471K50
C	2723,2725,2728,2737	CKSSYB104K10
C	2729,2736,2743,2745	CKSSYB471K50
C	2730,2734	CKSQYB474K25
C	2731	CKSQYB225K16
C	2733	ACH7203
C	2735,2779,2851,2852	CKSQYB475K10
C	2744,2746,2756,2758	CKSSYB104K10
C	2748,2750,2751,2753	CKSSYB105K6R3
C	2749,2752,2754	CCSSCH102J50
C	2755,2791,2796	CKSSYB105K6R3
C	2757,2759,2764,2766	CCSSCH471J16
C	2760,2761,2763,2765	CKSSYB104K10
C	2769,2772,2801,2803	CKSSYB471K50
C	2770,2771,2773-2776	CKSSYB104K10
C	2777,2778,2991,2993	CKSQYB225K10
C	2782,2956,2957,3061	ACH7211
C	2784,3065,3165,3265	CEHAZL221M10
C	2786-2790,2797,2798	CKSSYB104K10
C	2792-2795	CCSSCH102J50
C	2799	VCH1234
C	2800,2802,2804,2806	CKSSYB104K10
C	2805,2807,2809,2811	CKSSYB471K50
C	2808,2810,2812,2814	CKSSYB104K10
C	2813,2815,2818,2820	CKSSYB471K50
C	2816,2819,2821,2823	CKSSYB104K10
C	2822,2824,2831,2833	CKSSYB471K50
C	2825,2829,2830,2832	CKSSYB104K10
C	2826,3055,3063,3155	ACH7268
C	2834,2836,2839,2840	CKSSYB104K10
C	2835,2837,2838,2841	CKSSYB471K50
C	2903,2904	DCH1201

Mark	No. Description	Part No.
C	2905-2908,3109,3110	ACH7196
C	2911,2912,2915,2916	CFHXSQ103J16
C	2913,2914	CCSRCH101J50
C	2928,2953,2955,2958	CKSRYB104K16
C	2959,2964,3059,3070	CKSRYB103K50
C	2960,2981,2990,2995	CEHAZL101M10
C	2961-2963,2966,2983	CKSRYB104K16
C	2987	CEHAZL101M25
C	2992,2994,3053,3056	CKSRYB104K16
C	2996,2997,3007,3008	CFHXSQ103J16
C	3003-3006,3103,3105	CCSRCH331J50
C	3013,3014,3113,3114	CFHXSQ472J16
C	3051,3151,3251,3351	CEHAZL101M10
C	3057,3075,3101,3102	CCSRCH102J50
C	3058,3062,3064,3066	CKSRYB104K16
C	3067,3161,3167,3261	ACH7211
C	3072,3153,3156,3158	CKSRYB104K16
C	3081,3181,3281,3381	CKSSYB104K10
C	3082,3182,3282,3382	CKSSYB471K50
C	3104,3106	CCSRCH271J50
C	3107,3108,3207,3208	CFHXSQ103J16
C	3152,3171,3252,3271	CCSRCH471J50
C	3157,3175,3201,3202	CCSRCH102J50
C	3159,3170,3259,3270	CKSRYB103K50
C	3160,3168,3260,3268	CKSRYB105K16
C	3162,3164,3166,3172	CKSRYB104K16
C	3163,3255,3263,3355	ACH7268
C	3203-3206,3303-3306	CCSRCH331J50
C	3209,3210,3309,3310	ACH7196
C	3213,3214,3313,3314	CFHXSQ472J16
C	3253,3256,3258,3262	CKSRYB104K16
C	3257,3275,3301,3302	CCSRCH102J50
C	3264,3266,3272,3353	CKSRYB104K16
C	3267,3361,3367	ACH7211
C	3307,3308	CFHXSQ103J16
C	3352,3371,3405,3406	CCSRCH471J50
C	3356,3358,3362,3364	CKSRYB104K16
C	3357,3375	CCSRCH102J50
C	3359,3370,3456,3458	CKSRYB103K50
C	3360,3368	CKSRYB105K16
C	3363	ACH7268
C	3365	CEHAZL221M10
C	3366,3372,3452,3455	CKSRYB104K16
C	3401,3402	CEAT220M50
C	3403,3404	CCSRCH391J50
C	3407,3408	CKSRYB104K25
C	3409,3410	CEAT100M50
C	3453,3454	CEAT470M16
C	3457,3460	CKSRYB104K16
C	3459	CCSRCH471J50
C	3461	CKSSYB104K10

B D-MOTHER ASSY (SC-05)

SEMICONDUCTORS

Mark	No. Description	Part No.
IC	2001	PEG489B8
IC	2002,2003,2203,2204	TC4094BFN
IC	2005	BU4842F
IC	2006	TC74LCX244FTS1
IC	2007,2008,2406	TC74VHCT125AFTS1
IC	2009,2010	TC74VHCT541AFTS1
⚠ IC	2011,2412	NJM2880U1-33
IC	2201	PEG396A
IC	2202	AYW7256
IC	2205,2211,2408,2409	TC74VHC125FTS1
IC	2206	TC74VHC32FTS1
IC	2207,2407,2709,2805	TC74VHC08FTS1
IC	2208	TC74VHCT08AFTS1
IC	2209	TC74VHC04FTS1
IC	2210	TC74VHC00FTS1
IC	2213	TC7SH04FUS1
IC	2401	AK4114VQ
IC	2402-2404,2803	TC74LCX157FTS1
IC	2410,2411,2707	TC7SH08FUS1
⚠ IC	2413,2983	NJM2845DL1-05
IC	2414,2602,2603	TC74VHC125FTS1
IC	2601	BU9450KV
⚠ IC	2604	AAT4618IGV-0.5-1
IC	2701	DSPA56720AG
IC	2702	AYW7234
IC	2703	HY57V641620FTP-6
IC	2704,2705	TC74LCX573FTS1
⚠ IC	2706	NJM2872BF33
⚠ IC	2710	NJM2846DL3-33
⚠ IC	2711	PQ1LAX95MSPQ
⚠ IC	2712	RP131H101D
⚠ IC	2713	NJM2846DL3-25
IC	2714	TC7SH32FUS1
IC	2801	DSPC56371AF180
IC	2802	PDC168A8
IC	2804,2806	TC74LCX08FTS1
IC	2807	TC74VHC126FTS1
IC	2901,2902,3401	NJM4565MD
IC	2951	PCM1804DB
⚠ IC	2981	NJM2391DL1-33
IC	3001,3101,3201,3301	RNB4580F
IC	3052,3152,3252,3352	WM8740SEDS
IC	3451	AK4387ET
Q	2005,2008	RT1N241M
Q	2006	RT3P22M
Q	2007	2SA1366
Q	2201	RT1N141M-11
Q	2202	2SA1602A
Q	2203	RT1P431M
Q	2205,2207,2208	RT1P241M
D	2001,2003,2951,2952	MC2848-11
D	2002	RB520S-30
⚠ D	2004,2005	MC2848-11
D	2201	1SS357
D	2601,2602	HZU5R6(B2)
D	2701-2704	1SR154-400
D	2953,2954	MC2846-11

MISCELLANEOUS

Mark	No. Description	Part No.
L	2001 CHIP SOLID INDUCTOR	QTL1013
L	2002,2003 CHIP SOLID INDUCTOR	ATL7002
L	2404-2409 CHIP SOLID INDUCTOR	QTL1013
L	2411-2416 CHIP SOLID INDUCTOR	QTL1013
L	2601 CHIP SOLID INDUCTOR	ATL7002

Mark	No.	Description	Part No.
L	2602,2603	CHIP SOLID INDUCTOR	QTL1013
L	2701	CHIP SOLID INDUCTOR	QTL1013
L	2703-2711	CHIP SOLID INDUCTOR	QTL1013
L	2713	CHIP SOLID INDUCTOR	QTL1013
L	2801-2804	CHIP SOLID INDUCTOR	QTL1013
L	2806-2810	CHIP SOLID INDUCTOR	QTL1013
L	2951,2952	CHIP SOLID INDUCTOR	QTL1013
L	3053,3054	CHIP SOLID INDUCTOR	QTL1013
L	3153,3154	CHIP SOLID INDUCTOR	QTL1013
L	3253,3254	CHIP SOLID INDUCTOR	QTL1013
L	3353,3354	CHIP SOLID INDUCTOR	QTL1013
L	3451	CHIP SOLID INDUCTOR	QTL1013
JA	2402-2405	OPT. LINK IN	AKS7001
JA	2406,2407	OPT. LINK OUT	AKS7002
JA	2408	PIN JACK(2P)	AKB7173
JA	2601	4P SOCKET	AKP7201
KN	2001,2201	WRAPPING TERMINAL	VNF1084
KN	2401	SCREW PLATE	VNE1948
X	2001	RESONATOR (24.000 MHz)	CSS1716
X	2201	CERAMIC RESONATOR (15.7 MHz)	ASS7087
X	2601	CRYSTAL RESONATOR (45.1584 MHz)	ASS7065
X	2701	CRYSTAL OSCILLATOR (24.576 MHz)	ASS7072
X	2702	CRYSTAL OSCILLATOR (22.5792 MHz)	ASS7071
CN	2001	16P CONNECTOR	VKN1420
CN	2002	29P CONNECTOR	VKN1844
CN	2003	22P CONNECTOR	RKN1063
CN	2005,2007,2902	PLUG	CKS1764
CN	2006	7P SOCKET	XKP3074
CN	2008,2903	PLUG	CKS1761
CN	2401	PLUG(3P)	KM200NA3
CN	2402	23P SOCKET	XKP3082
CN	2403	CONNECTOR	CKS3815
CN	2901	PLUG	CKS1758
JH	2001	PCB BINDER	VEF1040

RESISTORS

R	2001-2003,2005-2007	RS1/16S104J
R	2010,2011,2035,2201	RS1/16S473J
R	2015,2027,2032,2039	RS1/16S104J
R	2018,2209	RS1/16S512J
R	2021,2026,2028,2030	RAB4CQ101J
R	2031,3003-3006	RS1/16S222J
R	2033,2034	RAB4CQ471J
R	2036,2049,2207,2214	RAB4CQ101J
R	2041,2043,2045,2046	RS1/16S104J
R	2047,3117,3118,3217	RS1/16S474J
R	2048,2050,2066,2067	RS1/16S104J
R	2069,2255,2610,2615	RS1/16S104J
R	2072,2103,2105,2107	RAB4CQ473J
R	2073	RS1/16S472J
R	2114,2118,2241	RAB4CQ473J
R	2140,2141,2270,2271	RS1/16S0R0J
R	2203,2717-2719,2721	RAB4CQ220J
R	2210,2237,2466,2467	RS1/16S101J
R	2211,2217,2229,2230	RS1/16S473J
R	2216,2218,2223,2226	RAB4CQ101J
R	2233,2235	RS1/16S473J
R	2234,2425,2730,2812	RAB4CQ101J
R	2401,2402	RS1/16S750J
R	2404,2405,2901-2904	RS1/16S220J
R	2423	RS1/16SS1802F
R	2609,2795,2796	RS1/16S101J
R	2629,2715,2746,2802	RAB4CQ470J
R	2714,2905,2906,2909	RS1/16S103J
R	2722,2761,2762,2765	RAB4CQ220J
R	2747,2803	RAB4CQ103J
R	2759,2760,2763,2764	RAB4CQ221J
R	2766	RAB4CQ220J
R	2789	RS1/16SS1000F
R	2790	RS1/16SS1202F
R	2791	RS1/10S0R0J
R	2822,3455	RAB4CQ101J
R	2907,2908,2911,2912	RS1/16S682J
R	2910	RS1/16S103J
R	2913-2918,3108,3116	RS1/16S392J
R	2919,2920	RS1/16S822J
R	2921,2922	RS1/16S911J
R	3001,3002,3009,3010	RS1/16S181J
R	3007,3008,3015,3016	RS1/16S202J
R	3011-3014,3103-3106	RS1/16S222J
R	3017,3018,3065,3066	RS1/16S0R0J
R	3021,3022,3119,3120	RS1/16S221J
R	3080,3165,3166,3180	RS1/16S0R0J
R	3101,3109,3201,3202	RS1/16S681J
R	3102,3110	RS1/16S181J
R	3107,3112,3114,3115	RS1/16S122J
R	3111,3113,3211-3214	RS1/16S272J
R	3203-3206,3303-3306	RS1/16S222J
R	3207,3208,3215,3216	RS1/16S122J
R	3209,3210,3301,3302	RS1/16S681J
R	3218,3317,3318,3413	RS1/16S474J
R	3219,3220,3319,3320	RS1/16S221J
R	3265,3266,3280,3365	RS1/16S0R0J
R	3307,3308,3315,3316	RS1/16S122J
R	3309,3310	RS1/16S681J
R	3311-3314	RS1/16S272J
R	3366,3380,3456	RS1/16S0R0J
R	3401,3402	RS1/16S223J
R	3403,3404	RS1/16S302J
R	3405,3406,3409,3410	RS1/16S332J
R	3407,3408	RS1/16S392J
R	3411,3412	RS1/16S221J
R	3414	RS1/16S474J
R	3458	RS1/16S4R7J
Other Resistors		RS1/16SS###J

CAPACITORS

C	2001,2040,3060,3068	CKSRYB105K16
C	2002,2004,2006,2011	CKSRYB104K16
C	2003,2014,2015,2039	CKSRYB471K50
C	2005,2007,2030,2032	CKSRYB102K50
C	2008,2738,2817	CKSSYB103K16
C	2009	ACH7298
C	2012,3011,3012,3111	CKSRYB472K50
C	2013,2220,2221,2954	CKSRYB103K50
C	2016,2047,3001,3002	CCSRCH102J50
C	2017,2018,2020-2024	CKSRYB104K16
C	2019,2026,2211-2215	CKSSYB104K10
C	2025	CEAT331M10
C	2027,2454,2457,2762	CKSQYB225K10

Mark	No. Description	Part No.
C	2028	CKSRYB473K50
C	2029,2031,2038,2041	CKSRYB104K16
C	2037,2929,2952,2984	CEHAZL101M25
C	2046,2209,2210,2217	CKSRYB104K16
C	2050-2054,2056-2065	CCSSCH100D50
C	2201,2426,2827	ACH7272
C	2202,2204,2205,2208	CCSSCH471J16
C	2206,2965,3071,3171	CCSRCH471J50
C	2216	CEAT102M10
C	2222,2224-2226,2228	CKSSYB104K10
C	2227,2402,2404	CKSRYB104K16
C	2230,2414,2421,2425	CKSSYB104K10
C	2407-2413,2417,2450	CKSRYB104K16
C	2415,2429,2431,2433	CKSSYB471K50
C	2416,2419,2422,2458	CEHAZL101M10
C	2418,2420,2424,2747	CCSSCH471J16
C	2423	CKSRYB474K10
C	2428,2430,2432,2434	CKSSYB104K10
C	2436,2438,2440,2448	CKSSYB104K10
C	2437,2439,2447,2449	CKSSYB471K50
C	2451,2785	ACH7273
C	2452,2461,2464	CKSSYB104K10
C	2453,2456,2604,2606	CKSRYB104K16
C	2455,2732,2781,2783	CEHAZL221M10
C	2462,2463,2615,2701	CKSSYB471K50
C	2601	CKSRYB105K10
C	2603,2605	CEAT101M10
C	2607	CKSRYB471K50
C	2608-2610,2614,2616	CKSSYB104K10
C	2611,2780,2901,2902	CKSRYB104K16
C	2612	CCSSCH150J50
C	2613	CCSSCH120J50
C	2626-2629,2702,2705	CKSSYB104K10
C	2703,2704,2706,2707	CKSSYB471K50
C	2708,2710,2712,2714	CKSSYB104K10
C	2709,2711,2713	CKSSYB471K50
C	2715-2717,2719,2721	CKSSYB471K50
C	2718,2720,2723,2725	CKSSYB104K10
C	2722,2724,2726,2727	CKSSYB471K50
C	2728,2737,2744,2746	CKSSYB104K10
C	2729,2736,2743,2745	CKSSYB471K50
C	2730,2734	CKSQYB474K25
C	2731	CKSQYB225K16
C	2733	ACH7203
C	2735,2779,2851,2852	CKSQYB475K10
C	2748,2750,2751,2753	CKSSYB105K6R3
C	2749,2752,2754	CCSSCH102J50
C	2755,2791,2796	CKSSYB105K6R3
C	2756,2758,2760,2761	CKSSYB104K10
C	2757,2759,2764,2766	CCSSCH471J16
C	2763,2765,2770,2771	CKSSYB104K10
C	2769,2772,2801,2803	CKSSYB471K50
C	2773-2776,2786-2790	CKSSYB104K10
C	2777,2778,2993	CKSQYB225K10
C	2782,2956,2957,3061	ACH7211
C	2784,3065,3165,3265	CEHAZL221M10
C	2792-2795	CCSSCH102J50
C	2797,2798,2800,2802	CKSSYB104K10
C	2799	VCH1234

Mark	No. Description	Part No.
C	2804,2806,2808,2810	CKSSYB104K10
C	2805,2807,2809,2811	CKSSYB471K50
C	2812,2814,2816,2819	CKSSYB104K10
C	2813,2815,2818,2820	CKSSYB471K50
C	2821,2823,2825,2829	CKSSYB104K10
C	2822,2824,2831,2833	CKSSYB471K50
C	2826,3063,3163,3263	ACH7268
C	2830,2832,2834,2836	CKSSYB104K10
C	2835,2837,2838	CKSSYB471K50
C	2839,3461	CKSSYB104K10
C	2903,2904	DCH1201
C	2905-2908,3109,3110	ACH7196
C	2911,2912,2915,2916	CKSQYB103K50
C	2913,2914	CCSRCH101J50
C	2928,2953,2955,2958	CKSRYB104K16
C	2959,2964,3059,3070	CKSRYB103K50
C	2960,2981,2995	CEHAZL101M10
C	2961-2963,2966,2983	CKSRYB104K16
C	2985,2986,3407,3408	CKSRYB104K25
C	2987	CEHAZL101M25
C	2994,3058,3062,3064	CKSRYB104K16
C	3003-3006,3103,3105	CCSRCH331J50
C	3007,3008,3107,3108	CKSQYB103K50
C	3066,3072,3158,3162	CKSRYB104K16
C	3067,3161,3167,3261	ACH7211
C	3101,3102,3201,3202	CCSRCH102J50
C	3104,3106	CCSRCH271J50
C	3112,3211,3212,3311	CKSRYB472K50
C	3159,3170,3259,3270	CKSRYB103K50
C	3160,3168,3260,3268	CKSRYB105K16
C	3164,3166,3172,3258	CKSRYB104K16
C	3203-3206,3303-3306	CCSRCH331J50
C	3207,3208,3307,3308	CKSQYB103K50
C	3209,3210,3309,3310	ACH7196
C	3262,3264,3266,3272	CKSRYB104K16
C	3267,3361,3367	ACH7211
C	3271,3371,3405,3406	CCSRCH471J50
C	3301,3302	CCSRCH102J50
C	3312	CKSRYB472K50
C	3358,3362,3364,3366	CKSRYB104K16
C	3359,3370,3456,3458	CKSRYB103K50
C	3360,3368	CKSRYB105K16
C	3363	ACH7268
C	3365	CEHAZL221M10
C	3372,3452,3455,3457	CKSRYB104K16
C	3401,3402	CEAT220M50
C	3403,3404	CCSRCH391J50
C	3409,3410	CEAT100M50
C	3453,3454	CEAT470M16
C	3459	CCSRCH471J50
C	3460	CKSRYB104K16

C FRONT IN ASSY

SEMICONDUCTORS

IC	6201	NJM4565MD
Q	6201	HN1C01FU
D	6201,6202,6204,6351	1SS302
D	6203,6205,6206	UDZS5R1(B)
D	6303,6304	UMZU6.2N

MISCELLANEOUS

Mark	No.	Description	Part No.
L	6201	CHIP SOLID INDUCTOR	QTL1013
JA	6201	JACK	RKN1004
JA	6202	FRONT AV INPUT	AKX7019
JA	6301	USB CONNECTOR	XKP3086
JA	6351	PHONE JACK	AKN7029
KN	6201,6202	WRAPPING TERMINAL	VNF1084
KN	6351	WRAPPING TERMINAL	VNF1084
CN	6201	PLUG(3P)	KM200NA3
CN	6202	CONNECTOR	CKS3380
CN	6301	PLUG(5P)	KM200NA5
CN	6351	4P JUMPER CONNECTOR	52147-0410

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

MISCELLANEOUS

Mark	No.	Description	Part No.
JH	6302	PCB BINDER	VEF1040

CAPACITORS

Mark	No.	Description	Part No.
C	6202,6208,6218,6224		CKSRYB104K16
C	6204,6220,6226,6228		CKSRYB103K50
C	6205,6206		CKSRYB221K50
C	6209		CKSRYB105K6R3
C	6210,6211,6234,6235		CEAT100M50
C	6212,6351		CKSRYB471K50
C	6213		CKSQYB106K6R3
C	6214-6216,6249-6251		CCSRCH101J50
C	6219		CEJQ100M16
C	6222,6227		CCSRCH220J50
C	6223,6225		CEAT330M25
C	6229		CKSRYB102K50
C	6230-6232,6239,6246		CKSRYB103K50
C	6233		CKSRYB472K50
C	6236,6245,6247		CKSRYB104K16
C	6237		CEAT100M50
C	6240-6242,6356		CCSRCH102J50
C	6243,6244		CEAL220M16
C	6248,6352		CKSRYB103K50
C	6303		CKSRYB104K25
C	6353,6354		CKSRYB822K50

D 232C & CONTROL ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
IC	5801		HIN202EIBNZ
Q	5801		2SC4154
Q	5802		DTA114TUA
Q	5806		2SA1366
Q	5807		RT1N241M
D	5804,5805		1SS352
D	5806,5807		1SS357
D	5809,5810		SIM-20STS1
D	5813,5814		MC2848-11
D	5815,5816		HZU5R1(B2)
D	5858		1SS302

MISCELLANEOUS

Mark	No.	Description	Part No.
L	5803-5807	CHIP SOLID INDUCTOR	QTL1013
L	5809-5811	CHIP SOLID INDUCTOR	QTL1013
JA	5801	9P D-SUB SOCKET	AKP1213
JA	5802,5804-5806	JACK	VKB1243
JA	5803	MINI JACK(4P) /W SW	XKN3015
JA	5807	SOCKET	BKP1127
KN	5801	SCREW PLATE	VNE1948
CN	5801	23P SOCKET	XKP3082

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

MISCELLANEOUS

Mark	No.	Description	Part No.
U	5801	REMOTE RECEIVER UNIT	GP1UE284QKC1

CAPACITORS

Mark	No.	Description	Part No.
C	5802,5811,5828,5852		CKSRYB103K50
C	5803		CCSRCH331J50
C	5804,5805		CKSRYB102K50
C	5807-5810		CKSRYB104K16
C	5812,5829		CEAT101M16
C	5830,5831		CKSRYB471K50
C	5832-5834		CCSRCH100D50
C	5857,5858		CEAT220M50

E HDMI NETWORK ASSY (SC-07)

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠ IC	11		NJM2846DL3-33
⚠ IC	21		NJM2846DL3-18
⚠ IC	31		NJM2886DL3-33
IC	101		SII9135CTU
IC	201		TC74VHC541FTS1
IC	202		ICS571MLF
IC	203		TC7WH74FU
IC	204,205,208		TC7WH157FU
IC	251		TC74VHC157FTS1
IC	252		TC7SH08FUS1
IC	301,351		SII9134CTU
⚠ IC	302,352		NJM2872BF05
IC	401		ADV7800BSTZ-80
IC	402		TC7WHU04FU
IC	501		PEG118A
IC	502		AYW7254
IC	504		BU4094BCFV
IC	505,911,1871		TC74VHC08FTS1
IC	601		ADV7172KSTZ
NSP IC	701		DM850E
NSP IC	791		341S2154
IC	801		AAT4618IGV-0.5-1
IC	861		RTL8201CP-LF
IC	881		AYW7255
IC	891		HY57V281620FTP-6
IC	921,1861		TC74VHCT08AFTS1
⚠ IC	1001		TPS54350PWP
⚠ IC	1021		LTC3850EGN
⚠ IC	1051		LT3505EMS8E
⚠ IC	1071		NJM2885DL1-05
IC	1081		TC7WH125FU
IC	1082		TC7WT125FU
IC	1151		SII9185ACTU
IC	1204		S-24CS02AFT
IC	1208		TC7MB3257FK
IC	1301		FLI2310-LF-CF

Mark	No.	Description	Part No.
IC	1351		M12L64322A-6TG
IC	1381,1383,1384,1402		TC74LCX541FTS1
IC	1382,1401,1403		TC7SZ125FU
IC	1404		TC74LCX541FTS1
IC	1701		UPD61111GM-100UEVA
⚠ IC	1702		NJM2885DL1-15
IC	1703		KA5SDKAS01TSN
IC	1901		K4H561638H-UCB3
⚠ IC	1902		S-1132B25-U5
IC	1903		NJM12904V
IC	1951		AYW7232
Q	201		RT1P241M
Q	301,351,1104,1203		DTC114YUA
Q	302,352		UMB1N
Q	631,641,651,661		2SA1602A
Q	671,681,1801,1811		2SA1602A
⚠ Q	1001		RTQ045N03
⚠ Q	1021,1022		SP8K1
Q	1204		DTC114YUA
Q	1281		HN1K02FU
Q	1821,1831		2SA1602A
D	301,351		UDZS5R1(B)
D	551,1701		RB501V-40
⚠ D	1001		RLZ6.8B
D	1021,1022,1052		RB160VA-40
⚠ D	1023,1024		RLZ5.6B
D	1051		RB160M-30
D	1101-1104		DAN202U
D	1861		1SS352

MISCELLANEOUS

Mark	No.	Description	Part No.
L	101-104,301-305	CHIP BEADS	ATL7010
L	105,106	CHIP SOLID INDUCTOR	QTL1013
L	201	INDUCTOR	CTF1379
L	202-204	CHIP SOLID INDUCTOR	QTL1013
L	207,208	CHIP SOLID INDUCTOR	QTL1013
L	251,252	CHIP SOLID INDUCTOR	QTL1013
L	306-309,356-359	COIL	ATH7022
L	351-355,401,402	CHIP BEADS	ATL7010
L	403,405	CHIP SOLID INDUCTOR	QTL1013
L	404,406,1001,1021	CHIP BEADS	ATL7010
L	501,601	CHIP SOLID INDUCTOR	ATL7002
L	602	CHIP SOLID INDUCTOR	ATL7002
L	631,641,651,661	INDUCTOR	ATL7015
L	671,681,1801,1811	INDUCTOR	ATL7015
L	701,702,805,861	INDUCTOR	CTF1357
L	704-707	CHIP FERRITE BEADS	ATF1211
L	801	CHIP FERRITE BEADS	VTL1169
L	802	COIL	VTH1043
L	862,871,881,891	INDUCTOR	CTF1357
L	863,864	COIL	VTH1056
L	911,936	INDUCTOR	CTF1357
L	1002	POWER INDUCTOR	ATH7059
L	1022	INDUCTOR	CTH1261
L	1023	INDUCTOR	ATH7060
L	1051,1151-1153	CHIP BEADS	ATL7010
L	1052	INDUCTOR	ATH7061
L	1097-1099	INDUCTOR	CTF1386
L	1301-1305	CHIP SOLID INDUCTOR	ATL7002
L	1351,1901	CHIP SOLID INDUCTOR	ATL7002
L	1381-1384	CHIP SOLID INDUCTOR	QTL1013
L	1401-1404	CHIP SOLID INDUCTOR	QTL1013
L	1701-1706,1902	FERRITE CORE	VTF1091
L	1821,1831	INDUCTOR	ATL7015
L	1861,1871	CHIP SOLID INDUCTOR	QTL1013
L	1951	FERRITE CORE	VTF1091
JA	301,351	HDMI CONNECTOR	AKP7225
JA	701	RJ45 CONNECTOR TRNS	VKN2078
JA	1101-1104	HDMI CONNECTOR	AKP7225
X	101	CRYSTAL RESONATOR (28.322 MHz)	ASS7085
X	401	CRYSTAL RESONATOR (28.63636 MHz)	ASS7069
X	501	CERAMIC RESONATOR (15.7 MHz)	XSS3004
X	701	CRYSTAL RESONATOR (24.576 MHz)	XSS3003
X	702	CRYSTAL RESONATOR (25.0 MHz)	ASS7084
X	791	CRYSTAL OSCILLATOR (32.768 kHz)	ASS1172
X	1301	CRYSTAL RESONATOR (13.5 MHz)	ASS7070
X	1701	CRYSTAL RESONATOR (27.0000 MHz)	BSS1123
CN	201	23P SOCKET	XKP3083
CN	502	13P SOCKET	XKP3077
CN	601	CONNECTOR	CKS4898
CN	801	CONNECTOR	AKM1276
CN	902	5P CONNECTOR	VKN1374
CN	1001	CONNECTOR	CKS3815
CN	1002	15P SOCKET	XKP3078
CN	1003	CONNECTOR	CKS1755
CN	1701	22P CONNECTOR	VKN1426
CN	1702	CONNECTOR	VKN2040
JH	1	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	101,103-105,108		RAB4CQ100J
R	115,204		RAB4CQ680J
R	119,320,322-330		RAB4CQ473J
R	130-132,134-136		RAB4CQ100J
R	141-144		ACN1275
R	305,355,609,612		RS1/16SS6800F
R	428,429,789		RAB4CQ330J
R	432,433,1385-1388		RAB4CQ470J
R	434,437,442,443		RAB4CQ473J
R	446,447,450,708		RAB4CQ473J
R	464,465,467,468		RAB4CQ472J
R	480-483,741,761		RAB4CQ220J
R	596		RAB4CQ101J
R	610,611		RS1/16SS5601F
R	633,643,653,663		RS1/16SS2200F
R	634,644,654,664		RS1/16SS4700F
R	673,683,1702		RS1/16SS2200F
R	674,684		RS1/16SS4700F
R	723		RS1/16S5101F
R	724		RS1/16S3900F
R	746,747,749		RAB4CQ100J
R	769,771,1322-1324		RAB4CQ220J
R	806,977,1031		RS1/16S0R0J
R	824		RS1/16SS1003F
R	851-854,1906,1907		RAB4CQ330J
R	867		RS1/16S2001F
R	868-871		RS1/16S49R9F
R	919		RS1/10S102J
R	1009,1056		RS1/16SS1002F
R	1011		RS1/16SS2001F

Mark	No. Description	Part No.
	R 1016,1029,1030,1057	RS1/10S0R0J
	R 1021,1022,1025,1026	ACN7160
	R 1023	RS1/16SS4702F
	R 1024,1027	RS1/16SS1502F
	R 1028	RS1/16SS1202F
	R 1055	RS1/16SS6802F
	R 1071-1074,1905	RS1/16S0R0J
	R 1158,1159	RS1/16SS1501F
	R 1314-1317,1352	RAB4CQ100J
	R 1327,1354-1361,1717	RAB4CQ220J
	R 1389,1729,1730,1740	RAB4CQ560J
	R 1403,1404,1409,1410	RAB4CQ0R0J
	R 1405,1406,1411,1412	RAB4CQ470J
	R 1701,1901,1902	RS1/10S0R0J
	R 1703	RS1/16SS1500F
	R 1706,1707	RS1/16SS9100F
	R 1718	RAB4CQ220J
	R 1726	RAB4CQ0R0J
	R 1741,1743,1748,1754	RAB4CQ560J
	R 1755	RAB4CQ560J
	R 1792-1794	RAB4CQ473J
	R 1802,1803,1812,1813	RS1/16SS8200F
	R 1804,1814,1824,1834	RS1/16SS3900F
	R 1822,1823,1832,1833	RS1/16SS8200F
	R 1903,1904	RS1/16SS1001F
	R 1914,1915	RAB4CQ330J
	Other Resistors	RS1/16SS###J

CAPACITORS

Mark	No. Description	Part No.
	C 11,31,322,372	CKSRYB104K16
	C 12,32,1072	CKSQYB225K10
	C 21,106-108,110	CKSSYB104K10
	C 22,1702	CKSQYB475K6R3
	C 23,1703,1705,1906	CEVW221M4
	C 33	CEVW101M6R3
	C 101,102,301,302	DCH1165
	C 103,104,303-305	CKSQYB106K6R3
	C 105,113,121,122	CKSSYB105K6R3
	C 109,111,131,203	CKSSYB103K16
	C 114-120,123-126	CKSSYB104K10
	C 127,463,740,1339	CCSSCH120J50
	C 128,462,741	CCSSCH100D50
	C 129,130,133,306	CKSSYB105K6R3
	C 132,134-139,201	CKSSYB104K10
	C 140-153,155,156	CKSSYB471K50
	C 202	CEVW4R7M35
	C 204,310,360,412	CKSSYB103K16
	C 206-208,211,251	CKSSYB104K10
	C 210,333-336	CKSSYB471K50
	C 216-218,252,421	CKSSYB102K50
	C 219,220,319,369	VCG1063
	C 253,307,309,312	CKSSYB104K10
	C 308,311,313-315	CKSSYB105K6R3
	C 316,317,324,357	CKSSYB104K10
	C 318,356,358,361	CKSSYB105K6R3
	C 320,321,370,371	CKSRYB105K10
	C 325-332,375-382	VCG1066
	C 351,352	DCH1165
	C 353-355,417,430	CKSQYB106K6R3
	C 359,362,366,367	CKSSYB104K10

Mark	No. Description	Part No.
	C 363-365,368,404	CKSSYB105K6R3
	C 374,403,405-411	CKSSYB104K10
	C 383-386,481-485	CKSSYB471K50
	C 401,402,419,434	CEVW101M16
	C 413	CKSSYB823K10
	C 414,435,436,501	CKSSYB103K16
	C 415	CKSRYB824K10
	C 416	CKSSYB393K10
	C 418,420,422-429	CKSSYB104K10
	C 431,437,438	CKSSYB104K10
	C 432,1157	CKSQYB106K6R3
	C 433,505,610,791	CKSSYB105K6R3
	C 439,440,1303,1704	DCH1201
	C 441-443,445-449	CKSSYB104K10
	C 461,502,504,506	CKSSYB104K10
	C 503,601,611,802	CEVW101M16
	C 511,551,552	CKSSYB104K10
	C 512,735,1033,1034	CKSSYB102K50
	C 602-609,612,614	CKSSYB104K10
	C 613,934,935,937	CKSSYB103K16
	C 615,617,631,641	CKSSYB104K10
	C 619-622,718,721	CKSSYB471K50
	C 632,642,652,662	CCSSCH101J50
	C 633,643,653,663	CCSSCH560J50
	C 651,661,671,681	CKSSYB104K10
	C 672,682,951	CCSSCH101J50
	C 673,683	CCSSCH560J50
	C 701,702,704-709	CKSSYB104K10
	C 710,742,743	CEVW100M16
	C 711-717,719,722	CKSSYB104K10
	C 720,867,870,883	CEVW220M16
	C 723,936	CEVW470M6R3
	C 724-734,736-739	CKSSYB104K10
	C 744-750,792,860	CKSSYB471K50
	C 801,803-805,1014	CKSRYB104K16
	C 807,1301,1302,1305	CEVW101M16
	C 861-865,868,871	CKSSYB104K10
	C 866,869,881,895	CKSSYB471K50
	C 872,874,882	CKSSYB104K10
	C 873	CEVW330M16
	C 875,1015,1046,1047	CCSRCH102J50
	C 891-894,900,911	CKSSYB104K10
	C 897-899,912,921	CKSSYB471K50
	C 922,950,1081,1082	CKSSYB104K10
	C 938,1166,1313	CKSSYB103K16
	C 939	CCSSCH180J50
	C 940	CCSSCH150J50
	C 946	CSZS330M6R3
	C 1001	CKSQYB104K25
	C 1002	CEVW101M25
	C 1003,1004,1021,1022	CCG1195
	C 1005,1011	CKSRYB682K25
	C 1006,1039	CCSRCH681J50
	C 1007,1029-1031,1041	CKSRYB104K25
	C 1008	CKSQYB105K16
	C 1009,1052,1151,1156	BCG1059
	C 1023,1027	CCG1233
	C 1024,1026	CKSQYB475K10
	C 1025,1028	CCSRCH101J50

Mark	No.	Description	Part No.
	C 1032		CKSRYB105K10
	C 1035,1040		CKSRYB223K16
	C 1036		CKSRYB222K50
	C 1037		CCSRCH470J50
	C 1038		CCSRCH121J50
	C 1042,1053		CKSRYB104K25
	C 1051		CKSQYB105K25
	C 1054		CCSSCH220J50
	C 1056		CCSRCH151J50
	C 1057,1071,1099,1701		CKSRYB104K16
	C 1101-1104,1352,1363		VCG1063
	C 1152-1155,1158-1165		CKSSYB104K10
	C 1167,1207,1208,1306		CKSSYB104K10
	C 1168-1175,1323,1333		CKSSYB471K50
	C 1308-1312,1319-1322		CKSSYB104K10
	C 1314-1318,1353-1362		CKSSYB105K6R3
	C 1324-1332,1335-1338		CKSSYB104K10
	C 1334,1343-1350		CKSSYB471K50
	C 1340		CCSSCH120J50
	C 1341,1381-1384		CKSSYB104K10
	C 1342,1708		CEVW101M16
	C 1351		ACH7174
	C 1364-1368,1385-1388		CKSSYB471K50
	C 1369		CKSRYB103K25
	C 1399		VCG1063
	C 1401-1404,1711-1717		CKSSYB104K10
	C 1405-1408,1748-1754		CKSSYB471K50
	C 1706,1709,1904,1905		DCH1201
	C 1710		CKSRYB104K16
	C 1719-1721,1723-1727		CKSSYB104K10
	C 1729-1736,1738,1739		CKSSYB104K10
	C 1740,1741		CCSSCK1R0C50
	C 1742		CKSSYB102K50
	C 1743,1745,1746,1801		CKSSYB104K10
	C 1747,1907-1915		CKSSYB105K6R3
	C 1802,1803,1812,1813		CCSSCH470J50
	C 1811,1821,1831,1861		CKSSYB104K10
	C 1822,1823,1832,1833		CCSSCH470J50
	C 1871,1916,1951		CKSSYB104K10
	C 1901-1903		CKSQYB225K10
	C 1917-1922		CKSSYB471K50

E HDMI NETWORK ASSY (SC-05)

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC 11		NJM2846DL3-33
⚠	IC 21		NJM2846DL3-18
⚠	IC 31		NJM2886DL3-33
	IC 101		SII9135CTU
	IC 201		TC74VHC541FTS1
	IC 202		ICS571MLF
	IC 203		TC7WH74FU
	IC 204,205,208		TC7WH157FU
	IC 251		TC74VHC157FTS1
	IC 252		TC7SH08FUS1
	IC 351		SII9134CTU
⚠	IC 352		NJM2872BF05
	IC 401		ADV7800BSTZ-80
	IC 402		TC7WHU04FU
	IC 501		PEG118A
	IC 502		AYW7254
	IC 504		BU4094BCFV
	IC 505,911,1871		TC74VHC08FTS1
	IC 601		ADV7172KSTZ
NSP	IC 701		DM850E
NSP	IC 791		341S2154
	IC 801		AAT4618IGV-0.5-1
	IC 861		RTL8201CP-LF
	IC 881		AYW7255
	IC 891		HY57V281620FTP-6
	IC 921,1861		TC74VHCT08AFTS1
⚠	IC 1001		TPS54350PWP
⚠	IC 1021		LTC3850EGN
⚠	IC 1051		LT3505EMS8E
⚠	IC 1071		NJM2885DL1-05
	IC 1081		TC7WH125FU
	IC 1082		TC7WT125FU
	IC 1151		SII9185ACTU
	IC 1204		S-24CS02AFT
	IC 1208		TC7MB3257FK
	IC 1301		FLI2310-LF-CF
	IC 1351		M12L64322A-6TG
	IC 1381,1383,1384,1402		TC74LCX541FTS1
	IC 1382,1401,1403		TC7SZ125FU
	IC 1404		TC74LCX541FTS1
	IC 1701		UPD61111GM-100UEVA
⚠	IC 1702		NJM2885DL1-15
	IC 1703		KA5SDKAS01TSN
	IC 1901		K4H561638H-UCB3
⚠	IC 1902		S-1132B25-U5
	IC 1903		NJM12904V
	IC 1951		AYW7232
	Q 201		RT1P241M
	Q 351,1104,1203,1204		DTC114YUA
	Q 352		UMB1N
	Q 631,641,651,661		2SA1602A
	Q 671,681,1821		2SA1602A
⚠	Q 1001		RTQ045N03
⚠	Q 1021,1022		SP8K1
	Q 1281		HN1K02FU
	D 351		UDZS5R1(B)
	D 551,1701		RB501V-40
⚠	D 1001		RLZ6.8B
	D 1021,1022,1052		RB160VA-40
⚠	D 1023,1024		RLZ5.6B
	D 1051		RB160M-30
	D 1101-1104		DAN202U
	D 1861		1SS352

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 101-104,351-355	CHIP BEADS	ATL7010
	L 105,106	CHIP SOLID INDUCTOR	QTL1013
	L 201	INDUCTOR	CTF1379
	L 202-204	CHIP SOLID INDUCTOR	QTL1013
	L 207,208	CHIP SOLID INDUCTOR	QTL1013
	L 251,252	CHIP SOLID INDUCTOR	QTL1013
	L 356-359	COIL	ATH7022
	L 401,402,404,406	CHIP BEADS	ATL7010
	L 403,405	CHIP SOLID INDUCTOR	QTL1013
	L 501,601	CHIP SOLID INDUCTOR	ATL7002

Mark	No.	Description	Part No.
L	602	CHIP SOLID INDUCTOR	ATL7002
L	631,641,651,661	INDUCTOR	ATL7015
L	671,681,1821	INDUCTOR	ATL7015
L	701,702,805,861	INDUCTOR	CTF1357
L	704-707	CHIP FERRITE BEADS	ATF1211
L	801	CHIP FERRITE BEADS	VTL1169
L	802	COIL	VTH1043
L	862,871,881,891	INDUCTOR	CTF1357
L	863,864	COIL	VTH1056
L	911,936	INDUCTOR	CTF1357
L	1001,1021,1051	CHIP BEADS	ATL7010
L	1002	POWER INDUCTOR	ATH7059
L	1022	INDUCTOR	CTH1261
L	1023	INDUCTOR	ATH7060
L	1052	INDUCTOR	ATH7061
L	1097-1099	INDUCTOR	CTF1386
L	1151-1153	CHIP BEADS	ATL7010
L	1301-1305	CHIP SOLID INDUCTOR	ATL7002
L	1351,1901	CHIP SOLID INDUCTOR	ATL7002
L	1381-1384	CHIP SOLID INDUCTOR	QTL1013
L	1401-1404	CHIP SOLID INDUCTOR	QTL1013
L	1701-1706,1902	FERRITE CORE	VTF1091
L	1861,1871	CHIP SOLID INDUCTOR	QTL1013
L	1951	FERRITE CORE	VTF1091
JA	351,1101-1104	HDMI CONNECTOR	AKP7225
JA	701	RJ45 CONNECTOR TRNS	VKN2078
X	101	CRYSTAL RESONATOR (28.322 MHz)	ASS7085
X	401	CRYSTAL RESONATOR (28.63636 MHz)	ASS7069
X	501	CERAMIC RESONATOR (15.7 MHz)	XSS3004
X	701	CRYSTAL RESONATOR (24.576 MHz)	XSS3003
X	702	CRYSTAL RESONATOR (25.0 MHz)	ASS7084
X	791	CRYSTAL OSCILLATOR (32.768 kHz)	ASS1172
X	1301	CRYSTAL RESONATOR (13.5 MHz)	ASS7070
X	1701	CRYSTAL RESONATOR (27.0000 MHz)	BSS1123
CN	201	23P SOCKET	XKP3083
CN	502	13P SOCKET	XKP3077
CN	601	CONNECTOR	CKS4898
CN	801	CONNECTOR	AKM1276
CN	902	5P CONNECTOR	VKN1374
CN	1001	CONNECTOR	CKS3815
CN	1002	15P SOCKET	XKP3078
CN	1003	CONNECTOR	CKS1755
CN	1701	22P CONNECTOR	VKN1426
CN	1702	CONNECTOR	VKN2040
JH	1	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	101,103-105,108		RAB4CQ100J
R	115,204		RAB4CQ680J
R	119,320,322-330		RAB4CQ473J
R	130-132,134-136		RAB4CQ100J
R	141-144		ACN1275
R	355,609,612		RS1/16SS6800F
R	428,429,789		RAB4CQ330J
R	432,433,1385-1388		RAB4CQ470J
R	434,437,442,443		RAB4CQ473J
R	446,447,450,708		RAB4CQ473J
R	464,465,467,468		RAB4CQ472J
R	480-483,741,761		RAB4CQ220J
R	596		RAB4CQ101J
R	610,611		RS1/16SS5601F
R	633,643,653,663		RS1/16SS2200F
R	634,644,654,664		RS1/16SS4700F
R	673,683,1702		RS1/16SS2200F
R	674,684		RS1/16SS4700F
R	723		RS1/16S5101F
R	724		RS1/16S3900F
R	746,747,749		RAB4CQ100J
R	769,771,1322-1324		RAB4CQ220J
R	806,977,1031		RS1/16S0R0J
R	824		RS1/16SS1003F
R	851-854,1906,1907		RAB4CQ330J
R	867		RS1/16S2001F
R	868-871		RS1/16S49R9F
R	919		RS1/10S102J
R	1009,1056		RS1/16SS1002F
R	1011		RS1/16SS2001F
R	1016,1029,1030,1057		RS1/10S0R0J
R	1021,1022,1025,1026		ACN7160
R	1023		RS1/16SS4702F
R	1024,1027		RS1/16SS1502F
R	1028		RS1/16SS1202F
R	1055		RS1/16SS6802F
R	1071-1074,1905		RS1/16S0R0J
R	1158,1159		RS1/16SS1501F
R	1314-1317,1352		RAB4CQ100J
R	1327,1354-1361,1717		RAB4CQ220J
R	1389,1729,1730,1740		RAB4CQ560J
R	1403,1404,1409,1410		RAB4CQ0R0J
R	1405,1406,1411,1412		RAB4CQ470J
R	1701,1901,1902		RS1/10S0R0J
R	1703		RS1/16SS1500F
R	1706,1707		RS1/16SS9100F
R	1718		RAB4CQ220J
R	1726		RAB4CQ0R0J
R	1741,1743,1748,1754		RAB4CQ560J
R	1755		RAB4CQ560J
R	1792-1794		RAB4CQ473J
R	1822,1823		RS1/16SS8200F
R	1824		RS1/16SS3900F
R	1903,1904		RS1/16SS1001F
R	1914,1915		RAB4CQ330J
	Other Resistors		RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
C	11,31,372,801		CKSRYB104K16
C	12,32,1072		CKSQYB225K10
C	21,106-108,110		CKSSYB104K10
C	22,1702		CKSQYB475K6R3
C	23,1703,1705,1906		CEVW221M4
C	33		CEVW101M6R3
C	101,102,351,352		DCH1165
C	103,104,353-355		CKSQYB106K6R3
C	105,113,121,122		CKSSYB105K6R3
C	109,111,131,203		CKSSYB103K16
C	114-120,123-126		CKSSYB104K10
C	127,463,740,1339		CCSSCH120J50
C	128,462,741		CCSSCH100D50
C	129,130,133,356		CKSSYB105K6R3

Mark	No. Description	Part No.
	C 132,134-139,201	CKSSYB104K10
	C 140-153,155,156	CKSSYB471K50
	C 202	CEVW4R7M35
	C 204,360,412,414	CKSSYB103K16
	C 206-208,211,251	CKSSYB104K10
	C 210,383-386	CKSSYB471K50
	C 216-218,252,421	CKSSYB102K50
	C 219,220,369	VCG1063
	C 253,357,359,362	CKSSYB104K10
	C 358,361,363-365	CKSSYB105K6R3
	C 366,367,374,403	CKSSYB104K10
	C 368,404,433,505	CKSSYB105K6R3
	C 370,371,1032	CKSRYB105K10
	C 375-382	VCG1066
	C 401,402,419,434	CEVW101M16
	C 405-411,418,420	CKSSYB104K10
	C 413	CKSSYB823K10
	C 415	CKSRYB824K10
	C 416	CKSSYB393K10
	C 417,430,432,1157	CKSQYB106K6R3
	C 422-429,431,437	CKSSYB104K10
	C 435,436,501,613	CKSSYB103K16
	C 438,441-443	CKSSYB104K10
	C 439,440,1303,1704	DCH1201
	C 445-449,461,502	CKSSYB104K10
	C 481-485,619-622	CKSSYB471K50
	C 503,601,611,802	CEVW101M16
	C 504,506,511,551	CKSSYB104K10
	C 512,735,1033,1034	CKSSYB102K50
	C 552,602-609,612	CKSSYB104K10
	C 610,791,1314-1318	CKSSYB105K6R3
	C 614,615,617,631	CKSSYB104K10
	C 632,642,652,662	CCSSCH101J50
	C 633,643,653,663	CCSSCH560J50
	C 641,651,661,671	CKSSYB104K10
	C 672,682,951	CCSSCH101J50
	C 673,683	CCSSCH560J50
	C 681,701,702	CKSSYB104K10
	C 704-709,711-717	CKSSYB104K10
	C 710,742,743	CEVW100M16
	C 718,721,744-750	CKSSYB471K50
	C 719,722,724-734	CKSSYB104K10
	C 720,867,870,883	CEVW220M16
	C 723,936	CEVW470M6R3
	C 736-739,861-865	CKSSYB104K10
	C 792,860,866,869	CKSSYB471K50
	C 803-805,1014,1057	CKSRYB104K16
	C 807,1301,1302,1305	CEVW101M16
	C 868,871,872,874	CKSSYB104K10
	C 873	CEVW330M16
	C 875,1015,1046,1047	CCSRCH102J50
	C 881,895,897-899	CKSSYB471K50
	C 882,891-894,900	CKSSYB104K10
	C 911,922,950,1081	CKSSYB104K10
	C 912,921,1168-1175	CKSSYB471K50
	C 934,935,937,938	CKSSYB103K16
	C 939	CCSSCH180J50
	C 940	CCSSCH150J50
	C 946	CSZS330M6R3
	C 1001	CKSQYB104K25
	C 1002	CEVW101M25
	C 1003,1004,1021,1022	CCG1195
	C 1005,1011	CKSRYB682K25
	C 1006,1039	CCSRCH681J50
	C 1007,1029-1031,1041	CKSRYB104K25
	C 1008	CKSQYB105K16
	C 1009,1052,1151,1156	BCG1059
	C 1023,1027	CCG1233
	C 1024,1026	CKSQYB475K10
	C 1025,1028	CCSRCH101J50
	C 1035,1040	CKSRYB223K16
	C 1036	CKSRYB222K50
	C 1037	CCSRCH470J50
	C 1038	CCSRCH121J50
	C 1042,1053	CKSRYB104K25
	C 1051	CKSQYB105K25
	C 1054	CCSSCH220J50
	C 1056	CCSRCH151J50
	C 1071,1099,1701,1710	CKSRYB104K16
	C 1082,1152-1155	CKSSYB104K10
	C 1101-1104,1352,1363	VCG1063
	C 1158-1165,1167,1207	CKSSYB104K10
	C 1166,1313	CKSSYB103K16
	C 1208,1306,1308-1312	CKSSYB104K10
	C 1319-1322,1324-1332	CKSSYB104K10
	C 1323,1333,1334	CKSSYB471K50
	C 1335-1338,1341	CKSSYB104K10
	C 1340	CCSSCH120J50
	C 1342,1708	CEVW101M16
	C 1343-1350,1364-1368	CKSSYB471K50
	C 1351	ACH7174
	C 1353-1362,1747	CKSSYB105K6R3
	C 1369	CKSRYB103K25
	C 1381-1384,1401-1404	CKSSYB104K10
	C 1385-1388,1405-1408	CKSSYB471K50
	C 1399	VCG1063
	C 1706,1709,1904,1905	DCH1201
	C 1711-1717,1719-1721	CKSSYB104K10
	C 1723-1727,1729-1736	CKSSYB104K10
	C 1738,1739,1743,1745	CKSSYB104K10
	C 1740,1741	CCSSCK1R0C50
	C 1742	CKSSYB102K50
	C 1746,1821,1861,1871	CKSSYB104K10
	C 1748-1754,1917-1922	CKSSYB471K50
	C 1822,1823	CCSSCH470J50
	C 1901-1903	CKSQYB225K10
	C 1907-1915	CKSSYB105K6R3
	C 1916,1951	CKSSYB104K10

F INTERFACE ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
⚠	D 7101	D3SBA20(B)

MISCELLANEOUS

Mark	No. Description	Part No.
	H 7101,7102 FUSE CLIP	AKR7001
	J 7061 JUMPER WIRE	D20PDY0415E
	KN 7001-7006 WRAPPING TERMINAL	VNF1084
	CN 7001 7P PLUG	XKP3063

Mark	No.	Description	Part No.
CN	7002,7005,7006	CONNECTOR	CKS1730
CN	7003,7004	CONNECTOR	CKS1727
CN	7007	PLUG	CKS1724
CN	7008,7014,7021	23P PLUG	XKP3071
CN	7009,7013	CONNECTOR	CKS3813
CN	7011	15P PLUG	XKP3067
CN	7012	CONNECTOR	CKS1721
CN	7031	27P CONNECTOR	VKN1258
CN	7032,7042	CONNECTOR	CKS3384
CN	7041	CONNECTOR	CKS3386
CN	7051	CONNECTOR	CKS3382
CN	7062	CONNECTOR	CKS3380
CN	7101	2P TOP POST	B2B-EH

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

MISCELLANEOUS

Mark	No.	Description	Part No.
JH	7002-7005	PCB BINDER	VEF1040
JH	7061	4P CABLE HOLDER	51048-0400
JP	7071	4P HOUSING ASSY	ADX7676
JP	7102	HOUSING ASSY	ADX7635
JP	7103	HOUSING ASSY	ADX7634
JP	7104	HOUSING ASSY	ADX7636

CAPACITORS

Mark	No.	Description	Part No.
C	7101		CFTLA394J50
C	7102,7105-7109		CCSRCH102J50
C	7104		CEAT682M25

G COMPONENT ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
IC	6001-6004		TC74LVX4052FT
IC	6005		TC74LVX4053FT
IC	6006		LA7213
IC	6007,6008		NJM2581M
IC	6009,6012		TC4094BFN
IC	6010,6013-6015		TC74VHCT08AFTS1
Q	6001-6007,6017,6018		2SA1602A
Q	6008,6019,6021		RT1N241M
⚠ Q	6015		2SC4154
⚠ Q	6016		2SA1602A
Q	6020		2SA1602A
D	6001		1SS352
D	6002,6003		RR264M-400
D	6010		UDZS5R1(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
L	6001	CHIP SOLID INDUCTOR	ATL7002
JA	6001	PIN JACK(3P)	AKB7203
JA	6002,6003	PIN JACK(6P)	AKB7204
JA	6004	JACK	AKN-209
KN	6001	SCREW PLATE	VNE1948
CN	6002	PLUG	CKS3545
CN	6004	13P PLUG	XKP3066
CN	6006	16P CONNECTOR	VKN1420
CN	6007	5P HOUSING ASSY	ADX7654
CN	6008	5P HOUSING ASSY	ADX7674
CN	6009	30P SOCKET	XKP3092

RESISTORS

Mark	No.	Description	Part No.
R	6007,6012,6017		RS1/16S1103D
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
C	6004,6048,6049,6060		CCSRCH102J50
C	6012,6013,6016,6017		CKSRYB103K50
C	6018,6021,6024		CEAT100M50
C	6019,6020,6022,6023		CKSRYB103K50
C	6025		CEAT3R3M50
C	6026,6027,6111,6112		CKSRYB103K50
C	6028,6038,6039		CEAT101M10
C	6043-6045,6050,6051		CEAT101M10
C	6046,6047,6058,6059		CKSRYB105K10
C	6055-6057		CEAT101M10
C	6061,6065,6069,6071		CCSRCH102J50
C	6064,6070,6072,6074		CKSRYB105K10
C	6068		CKSRYB105K16
C	6073,6075,6085,6087		CCSRCH102J50
C	6084,6086,6088,6091		CKSRYB105K10
C	6089,6092,6095,6100		CCSRCH102J50
C	6090,6093,6096,6103		CEAT101M16
C	6094,6099,6101,6105		CKSRYB105K10
C	6097,6098		CKSRYB224K10
C	6102,6106,6108,6138		CCSRCH102J50
C	6104,6143,6144,6174		CEAT101M16
C	6107,6137,6147,6148		CKSRYB105K10
C	6110,6115-6117		CKSRYB104K16
C	6113,6114,6121-6124		CCSRCH100D50
C	6125-6136,6184		CKSRYB103K50
C	6146,6149,6150,6153		CCSRCH102J50
C	6151,6152,6155,6157		CKSRYB105K10
C	6154,6156,6159,6160		CCSRCH102J50
C	6158,6161,6162,6165		CKSRYB105K10
C	6163,6164,6172,6173		CCSRCH102J50
C	6175,6181,6197-6199		CCSRCH100D50
C	6176,6177,6179,6180		CEAT101M16
C	6182,6183		CEAT101M16
C	6185,6187		CKSRYB105K10
C	6186,6188,6196		CCSRCH102J50
C	6189-6191		CEAT100M50

H COMPOSITE ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
IC	6501,6512		TC4094BFN
IC	6502,6513		LA7109
IC	6505,6506,6508,6509		TC74HC4051AFT
IC	6510		LA7213
IC	6511		TC74HC4053AFT
IC	6516-6518		NJM2505AF
Q	6501-6508		IMX25
Q	6509		2SA1602A
Q	6510		RT1N241M
Q	6516,6524,6525		2SC4154
D	6501		1SS352
D	6502,6503		RR264M-400
D	6504-6508		DAN217U

MISCELLANEOUS

Mark	No.	Description	Part No.
JA	6501,6502	PIN JACK(4P)	XKB3017
JA	6503	COMB.JACK(S+1P)	AKB7199

Mark	No.	Description	Part No.
	JA 6504-6507	COMB.JACK(2S+2P)	AKB7200
	JA 6509	JACK	XKB3069
	KN 6501-6503	SCREW PLATE	VNE1948
	CN 6501	CONNECTOR	CKS3374
	CN 6502	19P CONNECTOR	52044-1945
	CN 6503	PLUG	CKS3545

RESISTORS

Mark	No.	Description	Part No.
		All Resistors	RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 6501,6503,6509,6547		CKSRYB105K10
	C 6502,6504,6506,6508		CCSRCH102J50
	C 6505,6507,6670-6673		CKSRYB105K16
	C 6510,6548,6550-6555		CCSRCH102J50
	C 6511,6512,6519,6520		CCSRCH101J50
	C 6517,6518,6525,6526		CCSRCH331J50
	C 6527,6528,6535,6536		CCSRCH101J50
	C 6533,6534,6541,6542		CCSRCH331J50
	C 6544,6599,6600,6605		CKSRYB103K50
	C 6549,6556,6558,6567		CEAT101M10
	C 6557,6559,6566,6568		CKSRYB104K16
	C 6560-6565,6576,6578		CCSRCH181J50
	C 6581,6586,6587,6601		CEAT101M10
	C 6584,6585		CCSRCH181J50
	C 6598		CEAT100M50
	C 6602-6604,6641,6643		CKSRYB104K16
	C 6606,6608,6609,6611		CKSRYB103K50
	C 6607,6610,6613		CEAT220M50
	C 6612,6648,6694,6698		CKSRYB103K50
	C 6620,6621,6662-6667		CEAT101M16
	C 6624		CKSRYB105K10
	C 6625,6634-6639,6660		CCSRCH102J50
	C 6640,6642		CEAT101M10
	C 6650-6655,6689		CCSRCH100D50
	C 6661,6668,6669,6674		CCSRCH102J50
	C 6675,6679-6681		CCSRCH102J50
	C 6676-6678,6682-6684		CKSRYB105K16
	C 6685-6687,6692,6693		CCSRCH102J50
	C 6688		CEAT101M16
	C 6690,6691		CKSRYB105K16
	C 6696,6697,6699,6700		CKSQYB106K6R3
	C 6701,6704		CKSRYB103K50
	C 6702,6703		CKSQYB106K6R3
	C 6708-6710,6712		CEAT220M50
	C 6714-6716		CEAT220M50
	C 6717-6722		CKSRYB104K16

I FRONT BRIDGE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	CN 7701	PLUG(6P)	KM200NA6R
	CN 7704	19P CONNECTOR	52044-1945
	CN 7705,7708	CONNECTOR	CKS3374
	CN 7706	CONNECTOR	CKS3378
	CN 7707	CONNECTOR	CKS3382
	CN 7709	PLUG(3P)	KM200NA3
	CN 7710	27P CONNECTOR	VKN1287
	7701	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
		All Resistors	RS1/16S###J

MISCELLANEOUS

Mark	No.	Description	Part No.
	JH 7702	PCB BINDER	VEF1040

CAPACITORS

Mark	No.	Description	Part No.
	C 7702,7704		CCSRCH102J50
	C 7703		CKSRYB103K50
	C 7711-7714		CCSRCH100D50
	C 7715		CCSRCH181J50

J V-BRIDGE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	CN 8601,8602	CONNECTOR	CKS3573

CAPACITORS

Mark	No.	Description	Part No.
	C 8602-8604		CKSRYB103K50

K DISPLAY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 8001		PDC179A8
	IC 8002		GP1UE274XKC1
⚠	IC 8004		S-1200B33-M5
	IC 8201		PE5615A
	Q 8001-8007		RT1N431M
	Q 8009		2SA1602A
	Q 8010		RT1N241M
	Q 8012		2SK2034
	D 8001,8003,8005,8007		SLR-343VC(NPQ)
	D 8009,8013		SLR343BC4T(JKLM)
	D 8011		SLR343WBCT(MNPQ)
	D 8015,8016,8202		1SS352
	D 8017,8201		MC2848-11
	D 8019		RB751V-40
	D 8020		1SS302

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 8201	INDUCTOR	CTF1385
	J 9201	3P JUMPER WIRE	D20PDD0305E
	J 9203	4PJUMPER WIRE	D20PDD0410E
	KN 8201	FL HOLDER(FE)	VNF1096
	V 8201	FL TUBE DISPLAY	AAV7113
	S 8001-8012,8015-8020	SWITCH	VSG1024
	S 8023	SWITCH	VSG1024
	S 8024	ROTARY ENCODER	ASX7051
	X 8002	CRYSTAL OSCILLATOR CRYSTAL OSC (15.0 MHz)	CSS1653
	X 8201	CERAMIC RESONATOR (5.00 MHz)	VSS1142
	CN 8001	29P CONNECTOR	VKN1872
	CN 8002	9P CONNECTOR	VKN1269

RESISTORS

Mark	No.	Description	Part No.
		All Resistors	RS1/16S###J

MISCELLANEOUS

Mark	No.	Description	Part No.
	JH 8001	3P CABLE HOLDER	51048-0300
	JH 8003	4P CABLE HOLDER	51048-0400
	JH 8201	6P HOUSING ASSY	ADX7675

CAPACITORS

Mark	No.	Description	Part No.
	C 8001-8007		CCSRCH101J50

Mark	No.	Description	Part No.
	C 8008		CCSRCH471J50
	C 8009,8015,8016,8018		CKSRYB104K16
	C 8012,8013		CCSRCH150J50
	C 8014,8030,8031,8228		CKSRYB105K10
	C 8019-8021,8202,8223		CKSRYB102K50
	C 8022,8023,8027,8034		CKSRYB103K50
	C 8024		CEJQ101M6R3
	C 8025,8026,8232,8233		CCSRCH102J50
	C 8032,8033,8036,8224		CKSRYB104K16
	C 8035,8222		CKSRYB103K50
	C 8037		CCSRCH151J50
	C 8201,8230		CKSRYB104K50
	C 8203		CEAT101M35
	C 8204-8220,8226		CKSRYB471K50
	C 8221		ACH7268
	C 8225,8227		CKSRYB104K16
	C 8229		CKSRYB102K50
	C 8231		CEAT470M50

L VOL ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	S 8401	ROTARY ENCODER	ASX7049
	JH 8401	3P CABLE HOLDER	51048-0300

CAPACITORS

Mark	No.	Description	Part No.
	C 8401,8402		CKSRYB103K50

M POWER SW ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q 8501		RT1N431M
	D 8502		SLR343BC4T(JKLM)

MISCELLANEOUS

Mark	No.	Description	Part No.
	S 8501	SWITCH	VSG1024

RESISTORS

Mark	No.	Description	Part No.
		All Resistors	RS1/16S###J

MISCELLANEOUS

Mark	No.	Description	Part No.
	JH 8501	4P CABLE HOLDER	51048-0400

CAPACITORS

Mark	No.	Description	Part No.
	C 8501		CCSRCH101J50

N PRE BRIDGE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	CN 6951	19P CONNECTOR	52044-1945
	CN 6952	21P PLUG	XKP3070
	CN 6953	FLOATING CONNECTOR	AKP7227

O ICE BUFFER ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 6800,6820,6840,6860		UPC4570G2-A
	IC 6880,6900,6920		UPC4570G2-A

MISCELLANEOUS

Mark	No.	Description	Part No.
	J 6800	JUMPER WIRE	D20PDY0410E
	KN 6800,6801	SCREW PLATE	VNE1948
	CN 6800	FLOATING CONNECTOR	AKM7086
	CN 6810	19P PLUG	XKP3069
	CN 6820	17P PLUG	XKP3068
	CN 6830	5P SOCKET	XKP3073
	JH 6800	4P CABLE HOLDER	51048-0400

RESISTORS

Mark	No.	Description	Part No.
	R 6810,6811,6830,6831		RN1/16SC10R0D
	R 6850,6851,6870,6871		RN1/16SC10R0D
	R 6890,6891,6910,6911		RN1/16SC10R0D
	R 6930,6931		RN1/16SC10R0D
		Other Resistors	RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 6801,6802,6821,6822		CEJQ221M16
	C 6803,6804,6823,6824		CFHXSQ103J16
	C 6807,6808,6817,6818		CCSRCH102J50
	C 6827,6828,6837,6838		CCSRCH102J50
	C 6841,6842,6861,6862		CEJQ221M16
	C 6843,6844,6863,6864		CFHXSQ103J16
	C 6847,6848,6857,6858		CCSRCH102J50
	C 6867,6868		CCSRCH102J50
	C 6881,6882,6901,6902		CEJQ221M16
	C 6883,6884,6903,6904		CFHXSQ103J16
	C 6921,6922		CEJQ221M16
	C 6923,6924		CFHXSQ103J16

P ICE INTERFACE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	CN 3800	19P SOCKET	XKP3080
	CN 3801	17P SOCKET	XKP3079
	CN 3810,3840,3870	5P SOCKET	XKP3073
	CN 3820,3830,3850,3860	PLUG	CKS1750

Q ICEPOWER AMP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 4000,4001		BU7262SFVM
	IC 4003		TC74VHC04FTS1
	IC 4004		TC74VHC08FTS1
	IC 4005		HA17431GLTPA
	IC 4006		TC7WH08FU
⚠	IC 4101,4201,4301,4401		ICC3-AVR
	IC 4200,4400,4600,4700		ICC1-AVR
	IC 4202,4402,4602,4702		UPC4570G2-A
	IC 4203,4403,4603,4703		NJM4565MD
	IC 4204,4404,4604,4704		NJM12904V
⚠	IC 4501,4601,4701		ICC3-AVR
⚠	IC 4900		NJM1431AU
	Q 4000,4002,4003		RT1N241M
	Q 4001,4111,4211,4311		2SA1602A
	Q 4004,4006,4008,4010		RT1P241M
	Q 4005,4007,4009,4011		RT1N140M
	Q 4012,4013		RT3AMMM
	Q 4014,4016		HN1C01FU
	Q 4015,4109,4209,4309		2SC4154
⚠	Q 4100,4101,4200,4201		PHB45NQ15T
	Q 4102,4104,4202,4204		2SC5738
	Q 4103,4105,4203,4205		2SA2061
	Q 4106,4107,4206,4207		2SA1682
	Q 4108,4208,4308,4408		2SD2704K
	Q 4110,4210,4310,4410		2SA1514K

Mark	No. Description	Part No.
Q	4112,4312,4512,4712	RT1N140M
⚠ Q	4300,4301,4400,4401	PHB45NQ15T
Q	4302,4304,4402,4404	2SC5738
Q	4303,4305,4403,4405	2SA2061
Q	4306,4307,4406,4407	2SA1682
Q	4409,4509,4609,4709	2SC4154
Q	4411,4511,4611,4711	2SA1602A
⚠ Q	4500,4501,4600,4601	PHB45NQ15T
Q	4502,4504,4602,4604	2SC5738
Q	4503,4505,4603,4605	2SA2061
Q	4506,4507,4606,4607	2SA1682
Q	4508,4608,4708	2SD2704K
Q	4510,4610,4710	2SA1514K
⚠ Q	4700,4701	PHB45NQ15T
Q	4702,4704	2SC5738
Q	4703,4705	2SA2061
Q	4706,4707	2SA1682
D	4001-4005,4007-4014	1SS352
D	4100,4200,4300,4400	1SS302
D	4101,4102,4201,4202	RB161VA-20
D	4103-4107,4203-4207	RF051VA2S
D	4108,4109,4208,4209	RF101L2S
D	4110,4210,4310,4410	1SS352
D	4301,4302,4401,4402	RB161VA-20
D	4303-4307,4403-4407	RF051VA2S
D	4308,4309,4408,4409	RF101L2S
D	4500,4600,4700	1SS302
D	4501,4502,4601,4602	RB161VA-20
D	4503-4507,4603-4607	RF051VA2S
D	4508,4509,4608,4609	RF101L2S
D	4510,4610,4710,4810	1SS352
D	4701,4702	RB161VA-20
D	4703-4707	RF051VA2S
D	4708,4709	RF101L2S

MISCELLANEOUS

Mark	No. Description	Part No.
L	4100,4200,4300,4400 COIL	ATL7017
L	4101,4201,4301 COMMON MODE COIL	ATL7022
L	4102,4103,4202,4203 INDUCTOR	ATL7018
L	4104,4204,4304 CHIP INDUCTOR	ATL7020
L	4302,4303,4402,4403 INDUCTOR	ATL7018
L	4401,4501,4601 COMMON MODE COIL	ATL7022
L	4404,4504,4604 CHIP INDUCTOR	ATL7020
L	4500,4600,4700 COIL	ATL7017
L	4502,4503,4602,4603 INDUCTOR	ATL7018
L	4701 COMMON MODE COIL	ATL7022
L	4702,4703 INDUCTOR	ATL7018
L	4704 CHIP INDUCTOR	ATL7020
L	4902,4903 CHIP COIL	ATL7016
JA	4101 SP TERMINAL 6-P(V0)	AKE7137
JA	4301,4501 SP TERMINAL 4-P(V0)	AKE7135
KN	4100,4200,4300,4400 SCREW PLATE	VNE1948
RY	4100,4300,4500,4700 RELAY	ASR7001
CN	4000 CONNECTOR	CKS3382
CN	4100,4200,4400,4500 CONNECTOR	CKS1716
CN	4300,4600,4700 5P PLUG	XKP3062
CN	4900 4P-TOP POST(VH)	B4P-VH
CN	4901 PLUG(2P)	KM200NA2
CN	4902 PLUG(4P)	KM200NA4
CN	4903 PLUG(6P)	KM200NA6

Mark	No. Description	Part No.
	4100,4200,4300,4400,4500,4600,4700 COIL SHIELD 60(MTL)	ANK7139

RESISTORS

Mark	No. Description	Part No.
R	4057	RS1/8SQ471J
R	4060,4139,4239,4339	RS1/16S5602F
R	4061	RS1/16S3302F
R	4100,4101,4200,4201	RN1/16SE1000D
R	4102,4103,4202,4203	RN1/16SE9100D
R	4104,4105,4204,4205	RN1/16SE1001D
R	4123,4125,4167,4223	RS1/16S1001F
R	4124,4224,4324,4424	RS1/16S2702F
R	4126,4127,4226,4227	RS1/16S1501F
R	4128,4228,4328,4428	RS1/10S2702F
R	4129,4229,4329,4429	RS1/8SQ1R0J
R	4130,4230,4330,4430	RS1/8SQ4702F
R	4131,4231,4331,4431	RS1/8SQ6802F
R	4132,4232,4332,4432	RS1/16S1802F
R	4133,4135,4156,4176	RS1/16S1801F
R	4134,4234,4334,4434	RS1/16S1201F
R	4136,4236,4336,4436	RS1/16S1502F
R	4137,4237,4337,4437	RS1/4SA2702F
R	4138,4238,4338,4438	RS1/16S2701F
R	4145,4150,4245,4250	RS1/10S1002F
R	4146,4246,4346,4446	RS1/16S3902F
R	4147-4149,4161,4162	ACN7165
R	4151,4152,4251,4252	ACN7162
R	4153,4253,4353,4453	RS1/10S334J
R	4154,4254,4354,4454	ACN7161
R	4155,4255,4355,4455	RS1/10S1502F
R	4163,4263,4363,4463	RS1/4SA1053F
R	4164,4264,4364,4464	RS1/16S3301F
R	4166,4266,4366,4466	RS1/16S1002F
R	4168,4268,4368,4468	RS1/16S2202F
R	4169,4269,4369,4469	RS1/16S1202F
R	4177,4277,4377,4477	RS1/4SA2002F
R	4225,4267,4323,4325	RS1/16S1001F
R	4233,4235,4256,4276	RS1/16S1801F
R	4247-4249,4261,4262	ACN7165
R	4300,4301,4400,4401	RN1/16SE1000D
R	4302,4303,4402,4403	RN1/16SE9100D
R	4304,4305,4404,4405	RN1/16SE1001D
R	4326,4327,4426,4427	RS1/16S1501F
R	4333,4335,4356,4376	RS1/16S1801F
R	4345,4350,4445,4450	RS1/10S1002F
R	4347-4349,4361,4362	ACN7165
R	4351,4352,4451,4452	ACN7162
R	4367,4423,4425,4467	RS1/16S1001F
R	4433,4435,4456,4476	RS1/16S1801F
R	4439,4539,4639,4739	RS1/16S5602F
R	4447-4449,4461,4462	ACN7165
R	4500,4501,4600,4601	RN1/16SE1000D
R	4502,4503,4602,4603	RN1/16SE9100D
R	4504,4505,4604,4605	RN1/16SE1001D
R	4523,4525,4567,4623	RS1/16S1001F
R	4524,4624,4724	RS1/16S2702F
R	4526,4527,4626,4627	RS1/16S1501F
R	4528,4628,4728	RS1/10S2702F
R	4529,4629,4729	RS1/8SQ1R0J
R	4530,4630,4730	RS1/8SQ4702F

Mark	No.	Description	Part No.
R	4531,4631,4731		RS1/8SQ6802F
R	4532,4632,4732		RS1/16S1802F
R	4533,4535,4556,4576		RS1/16S1801F
R	4534,4634,4734		RS1/16S1201F
R	4536,4636,4736		RS1/16S1502F
R	4537,4637,4737		RS1/4SA2702F
R	4538,4638,4738		RS1/16S2701F
R	4545,4550,4645,4650		RS1/10S1002F
R	4546,4646,4746		RS1/16S3902F
R	4547-4549,4561,4562		ACN7165
R	4551,4552,4651,4652		ACN7162
R	4553,4653,4753		RS1/10S334J
R	4554,4654,4754		ACN7161
R	4555,4655,4755		RS1/10S1502F
R	4563,4663,4763,4863		RS1/4SA1053F
R	4564,4664,4764,4864		RS1/16S3301F
R	4566,4666,4766,4900		RS1/16S1002F
R	4568,4668,4768		RS1/16S2202F
R	4569,4669,4769		RS1/16S1202F
R	4577,4677,4777		RS1/4SA2002F
R	4625,4667,4723,4725		RS1/16S1001F
R	4633,4635,4656,4676		RS1/16S1801F
R	4647-4649,4661,4662		ACN7165
R	4700,4701		RN1/16SE1000D
R	4702,4703		RN1/16SE9100D
R	4704,4705		RN1/16SE1001D
R	4726,4727		RS1/16S1501F
R	4733,4735,4756,4776		RS1/16S1801F
R	4745,4750		RS1/10S1002F
R	4747-4749,4761,4762		ACN7165
R	4751,4752		ACN7162
R	4767		RS1/16S1001F
R	4901		RS1/16S3301F
R	4902		RS2LMF682J
Other Resistors			RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
C	4001-4004,4011-4021		CCSRCH102J25
C	4005,4006,4026,4027		CKSRYB104K16
C	4010,4036,4916,4917		CEHAT331M10
C	4022,4025,4029,4040		CKSRYB105K10
C	4023		CKSYB106K10
C	4024		CEHAT101M10
C	4028,4926		CKSRYB103K25
C	4031-4035,4041,4121		CKSRYB104K16
C	4100,4200,4300,4400		CFTNA104J2A
C	4101,4201,4301,4401		CFTNA274J2A
C	4104,4105,4204,4205		ACG7069
C	4106,4107,4206,4207		ACG7072
C	4108,4208,4308,4408		CEHAT221M25
C	4109,4209,4309,4409		CFHXSQ103J16
C	4112,4113,4117,4212		ACH1479
C	4114,4214,4314,4414		ACG7068
C	4115,4118,4120,4130		CKSRYB105K10
C	4116,4151,4216,4251		CKSRYB105K16
C	4119,4219,4319,4419		CKSQYB474K16
C	4122,4128,4222,4228		ACG7073
C	4123,4223,4323,4423		ACG7066
C	4124,4224,4324,4424		ACG7078
C	4125,4225,4325,4425		ACG7071
C	4126,4226,4326,4426		ACG7079
C	4127,4227,4327,4427		ACG7070
C	4129,4152,4153,4156		CKSRYB104K16
C	4131,4132,4231,4232		CKSQYB224K25
C	4133,4233,4333,4433		ACG7064
C	4134,4234,4334,4434		ACG7063
C	4135-4138,4235-4238		ACG7065
C	4141,4142,4241,4242		CCG1245
C	4143-4146,4243-4246		CCG1248
C	4147,4148,4215,4218		CKSRYB105K10
C	4149,4150,4249,4250		ACH7304
C	4155,4255,4355,4455		CKSYB475K25
C	4157,4257,4357,4457		CKSRYB222K50
C	4160,4260,4360,4460		CCSRCH102J50
C	4213,4217,4312,4313		ACH1479
C	4220,4230,4247,4248		CKSRYB105K10
C	4221,4229,4252,4253		CKSRYB104K16
C	4258,4321,4329,4352		CKSRYB104K16
C	4304,4305,4404,4405		ACG7069
C	4306,4307,4406,4407		ACG7072
C	4315,4318,4320,4330		CKSRYB105K10
C	4316,4351,4416,4451		CKSRYB105K16
C	4317,4412,4413,4417		ACH1479
C	4322,4328,4422,4428		ACG7073
C	4331,4332,4431,4432		CKSQYB224K25
C	4335-4338,4435-4438		ACG7065
C	4341,4342,4441,4442		CCG1245
C	4343-4346,4443-4446		CCG1248
C	4347,4348,4415,4418		CKSRYB105K10
C	4349,4350,4449,4450		ACH7304
C	4353,4356,4421,4429		CKSRYB104K16
C	4420,4430,4447,4448		CKSRYB105K10
C	4452,4453,4458,4521		CKSRYB104K16
C	4500,4600,4700		CFTNA104J2A
C	4501,4601,4701		CFTNA274J2A
C	4504,4505,4604,4605		ACG7069
C	4506,4507,4606,4607		ACG7072
C	4508,4608,4708,4808		CEHAT221M25
C	4509,4609,4709,4809		CFHXSQ103J16
C	4512,4513,4517,4612		ACH1479
C	4514,4614,4714		ACG7068
C	4515,4518,4520,4530		CKSRYB105K10
C	4516,4551,4616,4651		CKSRYB105K16
C	4519,4619,4719		CKSQYB474K16
C	4522,4528,4622,4628		ACG7073
C	4523,4623,4723		ACG7066
C	4524,4624,4724		ACG7078
C	4525,4625,4725		ACG7071
C	4526,4626,4726		ACG7079
C	4527,4627,4727		ACG7070
C	4529,4552,4553,4556		CKSRYB104K16
C	4531,4532,4631,4632		CKSQYB224K25
C	4533,4633,4733		ACG7064
C	4534,4634,4734		ACG7063
C	4535-4538,4635-4638		ACG7065
C	4541,4542,4641,4642		CCG1245
C	4543-4546,4643-4646		CCG1248
C	4547,4548,4615,4618		CKSRYB105K10
C	4549,4550,4649,4650		ACH7304

Mark	No.	Description	Part No.
C	4555,4655,4755		CKSYB475K25
C	4557,4657,4757,4857		CKSRYB222K50
C	4560,4660,4760,4860		CCSRCH102J50
C	4613,4617,4712,4713		ACH1479
C	4620,4630,4647,4648		CKSRYB105K10
C	4621,4629,4652,4653		CKSRYB104K16
C	4658,4721,4729,4752		CKSRYB104K16
C	4704,4705		ACG7069
C	4706,4707		ACG7072
C	4715,4718,4720,4730		CKSRYB105K10
C	4716,4751,4912,4913		CKSRYB105K16
C	4717,4817		ACH1479
C	4722,4728		ACG7073
C	4731,4732		CKSQYB224K25
C	4735-4738		ACG7065
C	4741,4742,4927-4929		CCG1245
C	4743-4746		CCG1248
C	4747,4748,4818,4847		CKSRYB105K10
C	4749,4750		ACH7304
C	4753,4756,4758		CKSRYB104K16
C	4900-4905		ACH7305
C	4908		CEHAT221M25
C	4909,4924,4925		CKSRYB104K25
C	4914,4915		CKSQYB104K16
C	4920,4921		CKSQYB105K25
C	4930,4931		CCSRCH102J50

R ICE SHIELD ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
KN	6990	SCREW PLATE	VNE1948
JH	6990	4P JUMPER CONNECTOR	52147-0410

S ZOUT ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
Q	6401,6411		IMX25

MISCELLANEOUS

Mark	No.	Description	Part No.
JA	6401	PIN JACK(4P)	XKB3017
CN	6401	11P CONNECTOR	52044-1145

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
C	6401,6402,6411,6412		CCSRCH471J50
C	6421,6423		CKSRYB103K50

T PRIMARY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠ IC	8711		NJM78M56FA
Q	8712		RT1N431M
D	8703,8704,8719		1SS352
⚠ D	8711		S1WB(A)60SD
D	8717		1SS357
D	8718		UDZS5R1(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ L	8701	LINE FILTER	XTF3004
H	8701,8702	FUSE CLIP	AKR7001
KN	8701	WRAPPING TERMINAL	VNF1084
KN	8702,8703	SCREW PLATE	VNE1948
⚠ RY	8702	POWER RELAY	ASR7022
⚠ T	8701	STANDBY TRANSFORMER	ATT7043
⚠ CN	8700	AC CODE SOCKET	RKP1751
⚠ CN	8701	CONNECTOR	B2P3-VH
CN	8711	PLUG(5P)	KM200NA5
JH	8701	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	8702		RD1/4MUF220J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
⚠ C	8701,8702		ACE7013
⚠ C	8704		ACG7039
C	8711		CFTLA103J50
C	8712-8715,8720		CCSRCH102J50
C	8716		CEAT332M25
C	8717,8719		CKSRYB103K50
C	8718		CEAT221M25

U PRIMARY GUARD ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
CN	5752	5P PLUG	XKP3062

V REG ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠ IC	7501,7611		NJM78M12FA
⚠ IC	7502		NJM79M12FA
⚠ IC	7521		NJM78M06FA
⚠ IC	7601		NJM78M56FA
⚠ IC	7602		NJM79M05FA
⚠ D	7501-7504,7521,7522		1SR154-400
D	7505,7506,7523,7603		1SS357
⚠ D	7601		D3SBA20(B)
D	7602		1SS352
D	7604,7614		1SS357
⚠ D	7611,7612,7621-7623		1SR154-400
D	7613		1SR154-400
D	7624		HZU6R2(B2)
D	7625		PTZ24(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
H	7501-7504,7601-7604	FUSE CLIP	AKR7001
CN	7501,7601	5P TOP POST	B5B-EH
CN	7502	PLUG(5P)	KM200NA5R
CN	7602	PLUG(5P)	KM200NA5E
CN	7621	PLUG(6P)	KM200NA6
JH	7502,7601	PCB BINDER	VEF1040
⚠ P	7521,7522	PROTECTOR(1A)	AEK7009

RESISTORS

Mark	No.	Description	Part No.
R	7621		RS1/16S473J
⚠	Other Resistors		RD1/4MUF###J

CAPACITORS

Mark	No.	Description	Part No.
C	7500,7520,7600,7634		CFTLA394J50
C	7501		CEAT332M25

Mark	No.	Description	Part No.
	C 7502,7521		CEAT222M25
	C 7505,7506,7522,7603		CKSRYB103K50
	C 7507,7508		CEAT221M25
	C 7523		CEAT221M16
	C 7601		CEAT472M16
	C 7602		CEAT222M16
	C 7604,7613,7626		CKSRYB103K50
	C 7605,7606,7624		CEAT101M16
	C 7611		CEAT102M35
	C 7612		CEAT471M35
	C 7614		CEAT100M50
	C 7621		CEANP101M35
	C 7622		CEAT101M35
	C 7623		CEAT221M35
	C 7625		CEAT470M50
	C 7628,7632		CCSRCH102J50
	C 7629		CFTLA104J50

W ICE REG ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC 7251		NJM78M12FA
⚠	IC 7252		NJM79M12FA
⚠	IC 7271		NJM78M05FA
⚠	IC 7272		NJM79M05FA
⚠	Q 7201		RSQ035P03
⚠	Q 7202		RSQ035N03
	Q 7203,7204		RT1N431M
	Q 7205,7222		RT1P431M
⚠	Q 7211		2SD1763A
⚠	Q 7212		2SB1186A
	Q 7221		RT1N241M
	Q 7241		2SD1763A
	Q 7242		2SC4154
⚠	D 7201-7204,7211,7212		1SR154-400
	D 7205,7206,7245		1SS352
	D 7213,7214		HZU7R5(B1)
	D 7215,7216		1SR154-400
⚠	D 7241-7244,7251-7254		1SR154-400
	D 7247		UDZS12(B)
⚠	D 7248		PTZ15(B)
⚠	D 7249		HZU12(B2)
	D 7255,7256,7275,7276		1SS357
⚠	D 7271-7274		1SR154-400

MISCELLANEOUS

Mark	No.	Description	Part No.
	H 7201-7204,7241,7242	FUSE CLIP	AKR7001
	H 7251-7254	FUSE CLIP	AKR7001
	CN 7201	8P TOP POST	B8B-EH
	CN 7241	PLUG(2P)	KM200NA2
	CN 7251	PLUG(6P)	KM200NA6E
	CN 7271	PLUG(4P)	KM200NA4
	CN 7302	PLUG(6P)	KM200NA6R
	JH 7251-7253	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
	R 7211,7213		RD1/4MUF102J
	R 7241		RS1/4S152J
	R 7255,7256		RS1/10S0R0J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 7200,7240,7250,7270		CFTLA394J50
	C 7201,7202		CEAT102M16
	C 7211-7215,7219,7245		CEAT100M50
	C 7217,7218,7242,7253		CKSRYB103K50
	C 7221,7246		CEAT470M25
	C 7241,7251,7252		CEAT222M25
	C 7254,7273,7274		CKSRYB103K50
	C 7255,7256		CEAT221M25
	C 7271,7272		CEAT222M16
	C 7275,7276		CEAT221M16
	C 7277,7278		CCSRCH102J50

X B DIODE ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	D 7400,7401		LN6SB60-4003

MISCELLANEOUS

Mark	No.	Description	Part No.
	CN 7400	CONNECTOR	B3P-VH
	7400,7401	HEAT SINK B	ANH1021
	7402,7403	SCREW	IBZ30P080FCC
	JP 7401	3P HOUSING ASSY	ADX7649

RESISTORS

Mark	No.	Description	Part No.
	R 7402		RD1/4MUF100J
	Other Resistors		RS1/4SA###J

CAPACITORS

Mark	No.	Description	Part No.
	C 7400,7401		ACH7270
	C 7402,7403		CFTLA104J2A

Y B REG ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC 7300,7301		HA17431GLTPA
⚠	IC 7302,7303		NJM2746V
⚠	Q 7300		2SD2083
⚠	Q 7301		2SB1383
	Q 7302,7308		2SD1857
	Q 7303,7307		2SB1236
	Q 7304		RT1N241M
	Q 7306		RT1P241M
	Q 7309		2SC4154
	Q 7310		2SA1602A
	D 7302,7303		PTZ11(B)
	D 7304,7307		UDZS2R4(B)
	D 7306,7309,7350,7352		1SS352
	D 7308,7310		1SR154-400
	D 7351		UDZS18(B)
	D 7353		UDZS20(B)
	D 7355		1SS352
⚠	TH 7300		PTFM04BB222Q2N34B0

MISCELLANEOUS

Mark	No.	Description	Part No.
	H 7300-7303	FUSE CLIP	AKR7001
	CN 7303	4P-TOP POST(VH)	B4P-VH
	CN 7306	PLUG(4P)	KM200NA4
	CN 7308	CONNECTOR	B3P-VH
	JH 7300	PCB BINDER	VEF1040
⚠	P 7300,7301	PROTECTOR(500MA)	AEK7005

RESISTORS

Mark	No.	Description	Part No.
	R 7302,7303		RS2LMF222J
	R 7306,7307		RS2LMF472J
	R 7308-7311		RS1/4SA333J
	R 7312-7315		RN1/16SE2702D
	R 7318,7319		RS1/10S473J
	R 7322,7323		RS2LMF152J
	R 7324,7325		RS1/10S100J
	R 7326-7329		RS1LMF332J
	R 7332,7333		RN1/10SE8202D
	R 7334,7335		RN1/10SE6801D
	R 7336,7337		RN1/10SE1800D
	R 7386		RS1/4SA154J
	R 7387		RS1/4SA393J
	R 7388		RS1/4SA223J
	R 7389		RS1/4SA473J
	Other Resistors		RS1/16S###J

CAPACITORS

	C 7302,7303,7376-7379		CCSRCH102J50
	C 7304-7307,7350		CKSRYB104K50
	C 7310,7311		CKSRYB473K50
	C 7318,7319		CCG1248
	C 7320,7321		CEAT4R7M50
	C 7324,7325		CEHAT470M2A
	C 7326,7327		ACG7064
	C 7380-7384		CKSRYB104K50
	C 7386		CCSRCH102J50

Z DCDC ASSY

SEMICONDUCTORS

⚠	IC 3901		PQ1CG3032FZ
	D 3901		RB050L-40
⚠	D 3902		PTZ6R8(B)

MISCELLANEOUS

	L 3901	INDUCTOR	ATH7052
	CN 3901	CONNECTOR	B2B-EH-E
	CN 3902	CONNRCTOR	B2B-EH-Y
	3900	HEAT SINK	ANH-309
	3901	SCREW	BBZ30P080FCC
	JH 3901	PCB BINDER	VEF1040

RESISTORS

	R 3901		RN1/16SE1001D
	R 3902		RN1/16SE3301D
	Other Resistors		RS1/16S###J

CAPACITORS

	C 3901		CEHAZL471M25
	C 3902		CKSYB105K25
	C 3903		CKSRYB104K25
	C 3905		CEHAZL221M10
	C 3906,3910		CCSRCH102J50
	C 3911		CFTLA394J50

AA HDMI RECT ASSY

SEMICONDUCTORS

⚠	D 8801		D5SBA20(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
	H 8801,8802	FUSE CLIP	AKR7001
	CN 8801	3P TOP POST	B3B-EH
	CN 8802	CONNECTOR	B2B-EH-R

CAPACITORS

	C 8800		CFTLA274J50
	C 8801		ACH7286
	C 8803		CCSRCH102J50

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service parts.